Service Manual

Sec. 1 Operating Instructions

Sec. 2 Service Information

Sec. 3 Disassembly Procedure

& Mechanical Adjustments

Sec. 4 | Electrical Adjustments

Sec. 5 Block Diagrams

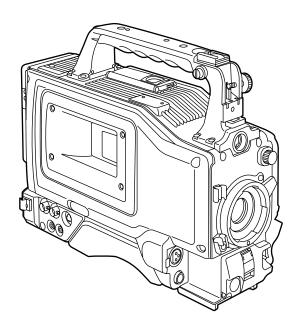
Sec. 6 Schematic Diagrams

Sec. 7 Circuit Board Diagrams

Sec. 8 Exploded Views & Parts List



Digital Video Camera Recorder
AG-DVC200P



Specifications

[VTR UNIT]

Video system

Recording format: DV format
Sampling frequency Y: 13.5 MHz

PB/PR: 3.375 MHz

Quantizing: 8 bits

Audio system

Recording format: Digital PCM stereo recording

16 bits (48 kHz/2 channels)
12 bits (32 kHz/2 channels)

Frequency response: 20 Hz to 20 kHz (at 48 kHz)

Tape transport system

Tape format: DV standard cassettes

Tape speed: 18.812 mm/sec.

Maximum recording time: 270 min.

[CONNECTOR SECTION]

Input

AUDIO IN CH1/CH2 (XLR x 2, 3 pins): LINE/MIC/MIC+48V switching system

MIC: -40, -50, -60 dBu menu-selectable
LINE: -6, 0, +4 dBu menu-selectable
MIC+48V: Phantom +48V supported

MIC IN (XLR x 2, 3 pins): MIC/MIC+48V switching system

MIC: -40, -50, -60 dBu menu-selectable

MIC+48V: Phantom +48V supported (menu-selectable)

GEN LOCK IN (BNC): 1.0 V_{P-P} , 75 Ω

Output

 CAMERA OUT (BNC):
 1.0 V_{P-P}, 75 Ω

 VIDEO OUT (BNC):
 1.0 V_{P-P}, 75 Ω

S-VIDEO OUT (S connector) Y signal: 1.0 V_{P-P} , 75 Ω C signal: 0.286 V_{P-P} , 75 Ω

AUDIO OUT CH1/CH2 (RCA x 2): -6 dBu, low impedance, unbalanced

PHONE OUT (stereo mini jack): -30 to -80 dBu

Other

DV 1394 (4 pins): IEEE1394 input/output **DC IN (XLR, 4 pins, male):**DC 12V (DC 11 to 17V)

DC 0UT (4 pins): DC 12V (DC 11 to 17V), max. 1A (DC 7V, max. 1A output

also available)

LENS (multi-connector, 12 pins) EVF (multi-connector, 20 pins)

Specifications

[VIEWFINDER]

(Optional accessory AJ-VF10P)

CRT: 1.5-inch high-resolution monochrome CRT

Video system: 525i/59.94 Hz

External controls Controls: BRIGHT, CONTRAST, PEAKING

Switches: TALLY HIGH/OFF/LOW, ZEBRA ON/ OFF

[ACCESSORIES]

Battery holder (already installed on unit) for Anton Bauer products

Microphone

Tripod plate

[RELATED EQUIPMENT]

Power supply-related products

Battery packs: AU-BP402, AJ-BP490

Battery chargers: AJ-B425 (for charging the AU-BP402 battery pack)

AJ-B450 (for charging the AU-BP402 and the AU-BP490

battery pack)

Battery case: AU-M402H **AC adapter:** AJ-B75

Audio products

Microphone kit:AJ-MC700PMicrophone holder:AJ-MH700PWireless mic receiver:WX-RJ700Camera attachment:WX-ZJ770

Maintenance products

Cleaning tape:AY-DVCLSoft carrying case:AJ-SC900Rain cover:SHAN-RC700

Shoulder strap: VFC2588 (service part)

SAFETY PRECAUTIONS

GENERAL GUIDELINES

- When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
- After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

- 1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. The resistance value must be more than $5M\Omega$.

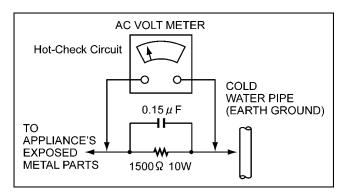


Figure1

LEAKAGE CURRENT HOT CHECK (See Figure 1)

- Plug the AC cord directly into the AC outlet.
 Do not use an isolation transformer for this check.
- 2. Connect a $1.5k\Omega$, 10W resistor, in parallel with a $0.15\mu F$ capacitor, between each exposed metallic part on the set an a good earth ground such as a water pipe, as shown in Figure 1.
- 3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- Reverse the AC plug in the AC outlet repeat each of the above measurements.
- 6. The potential at any point should not exceed 0.15 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 0.1 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ED) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

- Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
 - Alternatively, obtain and wear a commercially available discharging wrist trap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
- After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- Use only a grounded tip soldering iron to solder or unsolder ES devices.
- 4. Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
- Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it.
 - (most replacement ES devices are package with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
 - CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
- 8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

- 1. The potential source of X-radiation in EVF sets is the High Voltage section and the picture tube.
- When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.

Note: It is important to use an accurate periodically calibrated high voltage meter.

Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, ±0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.



CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER TO SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (service) instructions in the literature accompanying the appliance.

CAUTION:

Do not install or place this unit in a bookcase, built-in cabinet or in another confined space in order to keep well ventilated condition. Ensure that curtains and any other materials do not obstruct the ventilation condition to prevent risk of electric shock or fire hazard due to overheating.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

FCC Note:

This device complies with Part 15 of the FCC Rules. To assure continued compliance follow the attached installation instructions and do not make any unauthorized modifications.

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Replace battery with part No. CR2025/1B only. Use of another battery may present a risk of fire or explosion.

Caution—Battery may explode if mistreated. Do not recharge, disassemble or dispose of in fire.

Panasonic[®]

DISASSEMBLY PROCEDURES MECHANICAL ADJUSTMENTS

CONTENTS

1. Maintenance Parts	MEC-1
1-1. Maintenance Schedule	MEC-1
2. Alignment Tape	MEC-2
2-1. VFM3010EDL (NTSC)(DV adjustment tape)	MEC-2
2-2. VFM3000EDL (DV(LISTA) adjustment tape)	MEC-2
3. RECOMMENDED MEASURING INSTRUMENTS	MEC-2
4. Disassembly	MEC-6
4-1. Removal of Cassette Cover	MEC-6
4-2. Removal of Left Side Panel	MEC-6
4-3. Removal of Right Side Panel	MEC-6
4-4. Removal of VTR MAIN C.B.A	MEC-6
4-5. Removal of Cassette Up Unit	MEC-6
4-6. Removal of Mechanical Unit	MEC-7
4-7. Removal of Camera Unit	MEC-7
5. Mechanical Parts Replacement and Adjustment Procedure	MEC-8
5-1. Drum Unit Replacement	MEC-8
5-1-1. Adjustment Flow Chart After Drum Unit Replacement	MEC-9
5-1-2. Cleaning Arm Unit Replacement	MEC-10
5-1-3. T1 Guide Position Adjustment	MEC-10
5-2. Reel Table Replacement	MEC-11
5-2-1. Supply Reel Rotor Unit Replacement	MEC-11
5-2-2. Take Up Reel Rotor Unit Replacement	MEC-11
5-3. Pinch Solenoid Replacement	
5-4. Pinch Arm Unit Replacement	MEC-12
5-5. Loading Motor Unit Replacement	MEC-13
5-6. Mode Select Switch Unit Replacement	MEC-13
5-7. Main Cam Gear Replacement	
5-8. Brake Arm & Brake Solenoid Replacement	
5-9. MIC Base Unit Replacement	
5-10. S1 & T1 Post Loading Arm Unit Replacement and Adjustment	MEC-15

5-11.	Cleaner Solenoid Replacement and Adjustment	MEC-17
5-1	1-1. Cleaner Solenoid Position Adjustment	MEC-17
5-11	1-2. Cleaner Roller Position Adjustment	MEC-18
5-12.	S5 Post Base Unit Replacement	MEC-18
5-13.	Tension Arm Unit Replacement	MEC-19
5-14.	Pinch Solenoid Adjustment	MEC-20
5-15.	Main Brake Torque Confirmation	MEC-20
5-16.	Post Height Preadjustment	MEC-21
5-17.	Reel Torque Adjustment	MEC-21
5-18.	Tension Offset Adjustment	MEC-22
5-19.	Neutral Position Adjustment	MEC-23
5-20.	Play & Rev Tension Adjustment	MEC-23
5-21.	Tension Spring Adjustment	MEC-24
5-22.	REV Tension Confirmation	MEC-24
5-23.	Linearity Preadjustment	MEC-26
5-24.	Post Limit Confirmation 1	MEC-26
5-25.	Envelope Confirmation 1	MEC-27
5-26.	Envelope Confirmation 2	MEC-27
5-27.	Post Limit Confirmation 2	MEC-28
5-28.	Post Limit Confirmation 3	MEC-28
	PG Shifter Adjustment	
5-30.	Linearity Adjustment	MEC-29
5-31.	LISTA Adjustment Procedures	MEC-30
5-32.	LISTA Connection and Boot Up	MEC-31
5-33.	How to Entry the Alignment Tape Data	MEC-32
5-34.	LISTA Sensitivity Detection	MEC-33
5-35.	LISTA Linearity Adjustment	MEC-34

1.Maintenance Parts

1-1. Maintenance Schedule

			Using Hours(hrs)				
NO.	Name	Part Number	1000 2000 4000 5000	3000	6000		
1	Tape Path Cleaning		\triangle Clean the T	Tape Path at ea	ach 500 hours		
2	Cylinder Unit	VEG1561	•	•	0		
3	Pinch Arm Unit	VXL2835	● *1	● *1	©		
4	Cleaning Arm Unit	VXL3027	•	•	0		
5	S Reel(Rotor Unit)	VEM0658		•	0		
6	T Reel(Rotor Unit)	VEM0659		•	0		
7	S Brake Arm Unit	VXL3062		•	0		
8	T Brake Arm Unit	VXL3063		•	0		
9	Thrust Screw Unit	VXQ0556		•	0		
10	Mode SW Unit	VES0918C		•	0		
	Mech Chassis Unit	VXY1600			•		

Note: Hours of Use are based on the head rotation hours.

Hours of Use are recommendation. It may depend on temperature, humidity or dusty.

Hours of Use are listed as the reference of maintenance. They do not mean guarantee hours.

Symbol	Maintenance	Remark
•	Replacement	
0	Replacement	These parts included in Mech Chassis Unit
*	Greasing	Wipe the old grease and apply new grease
Δ	Greasing	This mark means cleaning is necessary

2.ALIGNMENT TAPE

2-1. VFM3010EDL (NTSC) (DV adjustment tape)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal Purpose		Signal	Purpose
0:00	Color bar	EQ adjustment	1,102.5KHz			

2-2. VFM3000EDL (DV (LISTA) adjustment tape)

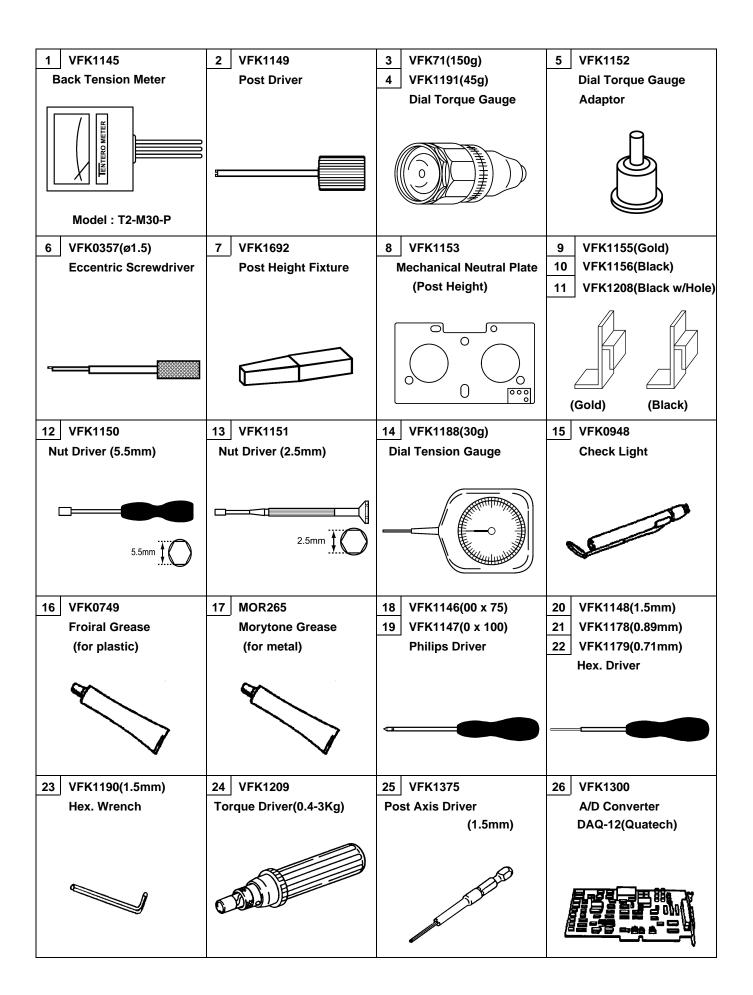
TIME	VIDEO		VIDEO PCM AUDIO		CUE	
(min.)	Signal	Purpose Signal Purpose		Signal Purpos		
0:00	LISTA signal	Adjustment of the linearity				

3.RECOMMENDED MEASURING INSTRUMENTS

MODEL NO. (Example)	NAME	REMARK
TSG1910 (NTSC)	NTSC analog composite signal generator (with CF OUT)	
	SCH meter (NTSC)	
1760 (op. SC) or 1780R	Waveform monitor (NTSC)	Tectronix
	Vector scope (NTSC)	
	Oscilloscope	
	Digital voltmeter (D.V.M.)	
	Frequency counter	
	Audio analyzer	

Tool List

Fig	PART No.	JIG & EQUIPMENT	REMARK
1	VFK1145A	Back Tension Meter (T2-M30-P)	
2	VFK1149A	Post Driver	
3	VFK71A	Dial Torque Gauge (1.5cN.m)	150g
4	VFK1191A	Dial Torque Gauge (0.45cN.m)	45g
5	VFK1152	Dial Torque Gauge Adaptor	
6	VFK0357	Eccentric Screwdriver (1.5mm)	
7	VFK1692	Post Height Fixture	
8	VFK1348	Mechanical Neutral Plate (Post Height)	L Cassette
9	VFK1155	Neutral Position Tool (Gold)	
10	VFK1156	Neutral Position Tool (Black)	
11	VFK1208	Neutral Position Tool (Black w/Hole)	
12	VFK1150	Nut Driver (5.5mm)	
13	VFK1151	Nut Driver (2.5mm)	
14	VFK1188A	Dial Tension Gauge (300mN)	30g
15	VFK0948A	Check Light	
16	VFK0749	Froiral Grease (for plastic)	
17	MOR265	Morytone Grease (for metal)	
18	VFK1146	Philips Driver (Fine) (00-75)	
19	VFK1147	Philips Driver (Fine) (0-100)	
20	VFK1148	Hex. Driver (1.5mm)	
21	VFK1178	Hex. Driver (0.89mm)	
22	VFK1179	Hex. Driver (0.71mm)	
23	VFK1190	Hex. Wrench	
24	VFK1209A	Torque Driver (0.4-3Kg)	
25	VFK0912	Post Axis Driver (1.5mm)	
26	VFK1300	A/D Converter DAQ-12 (Quatech)	
27	VFM3010EDL	Alignment Tape (LISTA)	L Cassette
28	VFM3000EDL	Alignment Tape (Color Bar)	L Cassette
29	AJ-CL12LP	Cleaning Tape	SALES
30	VFK1481C	LISTA Software	
31	VFK1186	LISTA Cable	
32	VFK1409S	Measuring Board	
33	VFK1410	Connection Board	

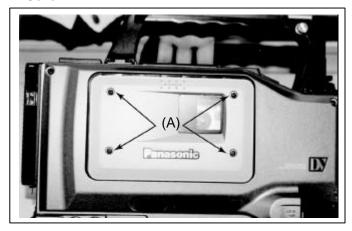


27	VFM3010EDL	29	AJ-CL12LP	30	VFK1481C	32	VFK1409S
	Alignment Tape (Color Bar)		Cleaning Tape		LISTA Software		Measuring Board
28	VFM3000EDL			31	VFK1186	33	VFK1410
	Alignment Tape (LISTA)				TA Cable		Connection Board
				П			

4. Disassembly

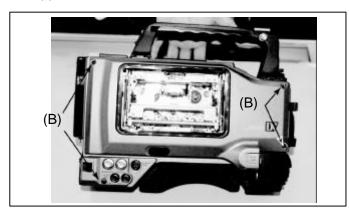
4-1. Removal of Cassette Cover

1. Unscrew the 4 screws (A) and remove the Cassette Cover.



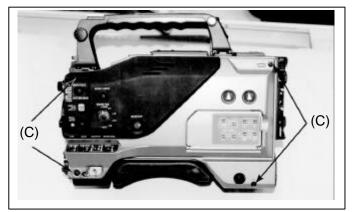
4-2. Removal of Left Side Cover

1. Unscrew the 4 screws (B) and remove the Shoulder Pad.

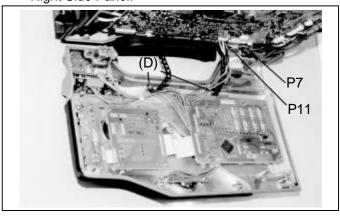


4-3. Removal of Right Side Cover

- 1. Unscrew the 5 screws (C).
- 2. Unscrew the screw (D).

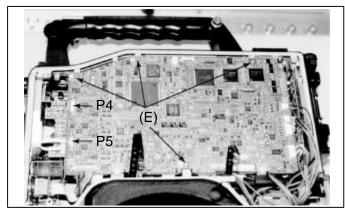


3. Disconnect the connector (P7, P11) and remove Right Side Panel.



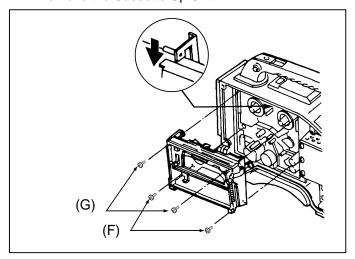
4-4. Removal of VTR MAIN C.B.A.

- 1. Unscrew the 4 screws (E).
- 2. Disconnect the connector (P3, P4) and open VTR MAIN C.B.A..



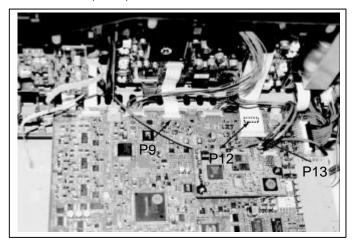
4-5. Removal of Cassette Up Unit

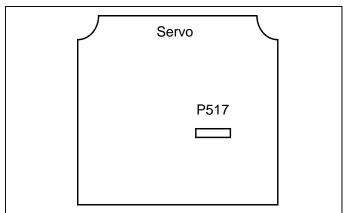
- 1. Push the Cassette Up Unit lock.
- 2. Unscrew the 2 screws (F) and 2 screws (G). Remove the Cassette Up Unit.



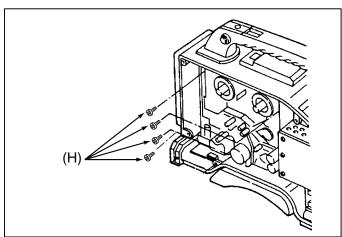
4-6. Removal of Mechanical Unit

1. Disconnect the connector (P9, P12, P13) and connector (P517).



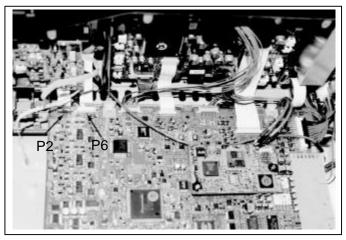


2. Unscrew the 4 screws (H) and remove the Mechanical Unit.

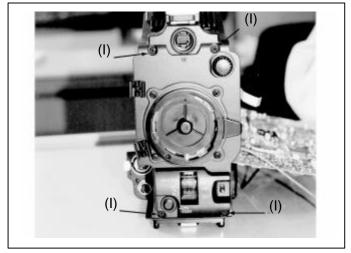


4-7. Removal of Camera Unit

1. Disconnect the connector (P2, P6).



Unscrew the 4 screws (I) and remove the Camera Unit.



3. Disconnect the connector (P4) and remove the Camera Unit.

Note: Assemble procedures are reverse of the disassembly procedures.

5. Mechanical Parts Replacement and Adjustment Procedure

General

When mechanical parts are replaced, Pay attention to the following notes.

- 1. Turn power off before replacing any parts.
- 2. If any adjustment is required after replacing parts, perform the required adjustments.
- 3. Use proper fixture and tools.
- 4. Make sure to clean the parts after replacement.

Also when the mechanical parts are replaced, follow the replacement procedure.

5-1. Drum Unit Replacement

(Removal of Mechanism Unit)

The "Section 3.Disassembly procedures" Item 1 through 7 by following Remove the Mechanism Unit and the RF & Servo C.B.A.

(Removal of Cylinder Unit)

- 1. Remove the T1 Guide and Cleaning Arm Unit (Refer to item 1-1).
- Disconnect P1, P513 on the Servo C.B.A. and hold the top of the Drum Unit, then remove 3 screws and carefully pull out the Drum Unit with care not to scratch the flexible cables.

Note: Be careful for removing the flexible cable from the connector. Refer to the way to remove the connector as shown in Figure M1.

Note: Don't touch the cylinder with a finger directly when pulling out the Drum unit.

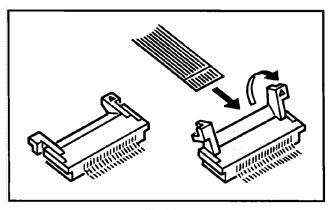


Fig.M1

(Installation)

- 1.Install the new Drum Unit according to the reverse procedures for removal.
- 2. After installing T1 Guide, T1 Guide position adjustment should be performed (Refer to item 12-1).

Note: When installing the Drum Unit, the pin on Mech. Chassis should match hole of Drum Unit as shown in Figure M2.

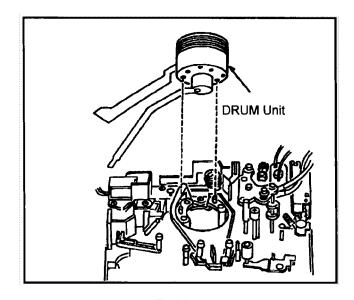


Fig.M2

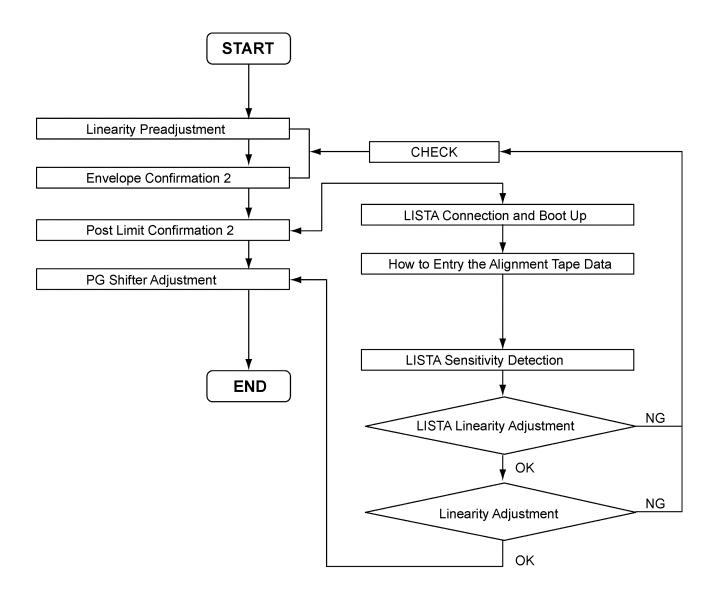
5-1-1. Adjustment Flow Chart After Drum Unit Replacement

1. After changing the Drum Unit, perform the following adjustment steps.

Adjustment Flowchart After Drum Unit & Mech. Chassis Replacement

Note: Confirm the tape path linearity before head replacement.

The number indicated on the chart below is item number on the Service Manual.



5-1-2. Cleaning Arm Unit Replacement

(Removal)

- 1. Remove the Cassette Cover and Left Side Panel.
- 2. Unscrew the 2 screws(A) to remove the T1 Guide.
- Pick up the tip portion(B) of Cleaning Arm Unit and remove the spring from Cleaner Arm Unit. Then remove the Cleaning Arm Unit as shown in Figure M18.

(Installation)

- Install the cleaning Arm Unit, then hang the spring on Cleaning Arm Unit.
- 2. Install the T1 Guide and tighten 2 screws(A).
- Press the iron core of the Cleaner Solenoid and confirm that the Cleaner Roller is rotated when the cylinder is rotated by hand.
- 4. "12-1. T1 Guide position adjustment" should be performed.



Place the unit in Loading completion position.

<How to Make the No Tape Loading>

- Put a black tube onto TAPE DETECT LED.
- Turn on the power and then the VTR begins loading without tape. After T1 post reached to Loading completion position, unplug DC input to the unit.
- 1. Observe the clearance (B) between T1 Guide and T1 post as shown in Figure M19. And make sure that it is in between 0.2 and 0.5mm.
- 2. If not, Loosen the 2 screws(A) and adjust the position of T1 Guide by moving to arrow direction ($G \Leftrightarrow G$) so that the clearance (B) is within the specification. And tighten the 2 screws(A).

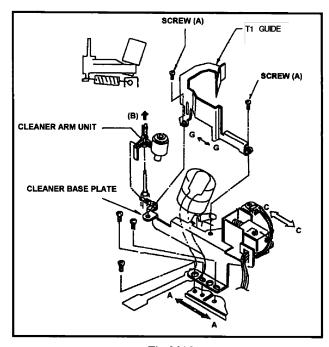


Fig.M18

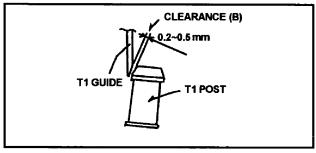


Fig.M19

5-2. Reel Table Replacement 5-2-1. Supply Reel Rotor Unit Replacement (Removal)

- 1. Remove the Cassette Cover, both Side Panel, and Cassette Up Unit, and then open MAIN C.B.A.
- 2. Disconnect the connector P514 on the RF & Servo C.B.A.
- Turn the Emergency Gear until S1 Post moved to center loading Position and remove the S5 Post(Refer to item 14).
- 4. Pull up the Arm Return Spring on the Connection Arm Angle Side and disconnect the Connection Arm Angle.
- 5. Unscrew the 2 screws (C) to remove the Supply Reel Stopper as shown in Figure M8.
- Push the Reel Table to middle position and unscrew the 2 screws(D) to remove the Supply Reel Rotor Unit as shown in Figure M8.
- 7. Remove the 2 Cut Washers to remove the Idler Arm Unit.

5-2-2. Take Up Reel Rotor Unit Replacement

- 1. Remove the Cassette Cover, both Side Panel and Cassette Up Unit, and then open MAIN C.B.A.
- 2. Disconnect the connector P515 on the RF & Servo C.B.A.
- Unscrews the 2 screws(E)and then remove the Take Up Reel Stopper.
- Push the Reel Table to middle position and unscrew the 2 screws (F) to remove the Take Up Reel Rotor Unit as shown in Figure M8.

CAUTION: Don't touch FG portion with the magnetized screw driver.

(Installation for both unit)

- 1. Install the new Reel Rotor Unit according to the reverse procedures for removal.
- 2. Adjust the "4.Reel Torque Adj." And confirm "2.Main Brake Torque" in the Section 3.

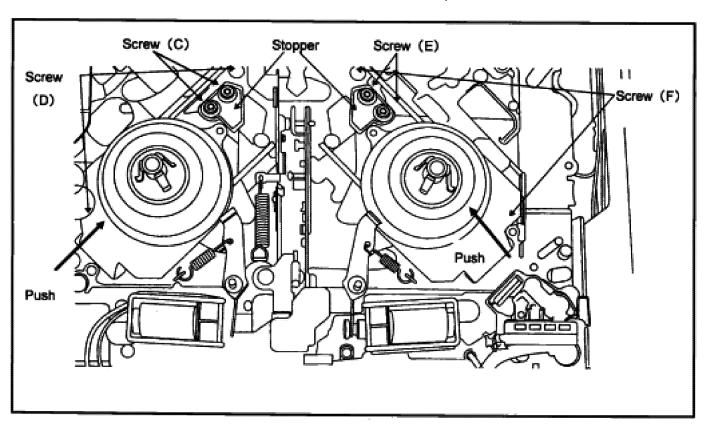


Fig.M8

5-3. Pinch Solenoid Replacement (Removal)

- 1. Remove the Cassette Cover, both Side Panel and Cassette Up Unit, and then open MAIN C.B.A.
- 2. Disconnect the connector P510 on the RF & Servo C.B.A.
- 3. Unscrew the 2 screws(A) and remove the Pinch Solenoid Unit as shown in Figure M9.
- 4. Unscrew the 2 screws(B)and remove the Pinch Solenoid Angle.
- 5. Unscrew the 2 screws(C)and remove the Pinch Solenoid from the Pinch Solenoid Base.

(Installation)

- 1. Install the new Pinch Solenoid according to the reverse procedures for removal.
- After installing, Pinch Solenoid Position Adjustment is required. (Refer to "1. Pinch Solenoid Adj." In the Section 3).

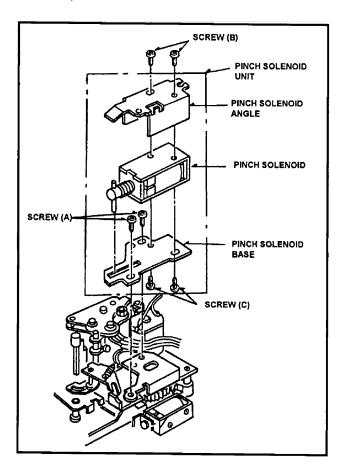


Fig.M9

5-4. Pinch Arm Unit Replacement (Removal)

- 1. Remove the Cassette Cover, both Side Panel and Cassette Up Unit, and then open MAIN C.B.A.
- 2. Remove the Pinch Solenoid Unit (Refer to item 4).
- 3. Remove the Cut Washer(A) to remove the Pinch Solenoid Lever as shown in Figure M10.
- 4. Remove the Cut Washer(B) to remove the Pinch Arm Unit as shown in Figure M10.

(Installation)

- 1. Install the new Pinch Arm Unit according to the reverse procedures for removal.
- After installing, Pinch Solenoid Position Adjustment is required. (Refer to "1.Pinch Solenoid Adj." In the Section 3).

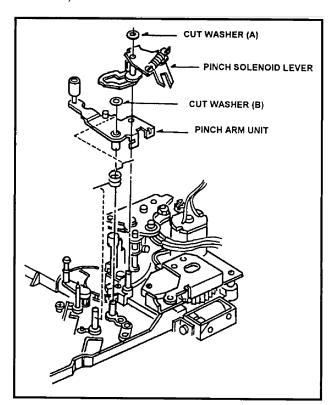


Fig.M10

5-5. Loading Motor Unit Replacement

(Removal)

- Remove the Cassette Cover, both Side Panel and Cassette Up Unit, and then open MAIN C.B.A.
- Disconnect the connector P511 on the RF & Servo C.B.A.
- Remove the Pinch Solenoid and Pinch Solenoid Lever.(Refer to item 4&5).
- 4. Unscrew the screw(B)to remove the Emergency Shaft as shown in Figure M11.
- Unscrew the 2 screw (C)to remove the Loading Motor Unit as shown in Figure M11.
- Unscrew the 2 screw(D)to remove the Loading Motor Neutral Unit as shown in Figure M11.

(Installation)

- Install the new Loading Motor Unit according to the reverse procedures for removal.
- Install the Pinch Solenoid Unit. After installing, Pinch Solenoid Position Adjustment is required.(Refer to "1.Pinch Solenoid Adj." In the Section 3).

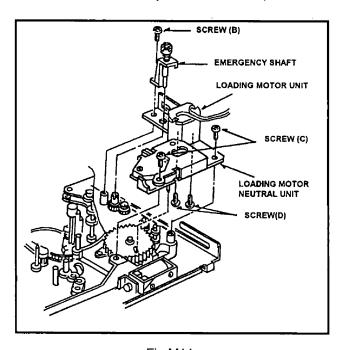


Fig.M11

5-6. Mode Select Switch Unit Replacement (Removal)

- Remove the Cassette Cover, both Side Panel and Cassette Up Unit, and open MAIN C.B.A.
- 2. Disconnect the connector P512 on the Servo C.B.A.
- Remove the Pinch Solenoid Unit and Loading Motor Neutral Unit(Refer to item 4 to 6).
- Remove the screw(D)to remove the Mode Select Switch Unit from Loading Motor Neutral Unit as shown in Figure M12.

(Installation)

1. Install the New Mode Select Switch Unit according to the reverse procedures for removal.

Note : Confirm that the pin of Mode Switch Unit matches with the groove of Main Cam Gear.

 After installing, Pinch Solenoid Position Adjustment is required. (Refer to "1.Pinch Solenoid Adj." In the Section 3).

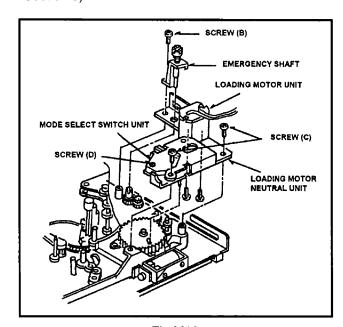


Fig.M12

5-7. Main Cam Gear Replacement (Removal)

- Remove the Cassette Cover, both Side Panel and Cassette Up Unit, and then open MAIN C.B.A.
- 2. Remove the Pinch Solenoid Unit and Loading Motor Neutral Unit(Refer to item 4 to 6).
- 3. Remove the Main Cam Gear as shown in Figure M13.

(Installation)

- Install the Main Cam Gear so that the pin of Main Cam Arm Unit(*)matches with the groove position of Main Cam Gear as shown in Figure M13.
- 2. Follow the reverse procedures for removal.
- After installing, Pinch Solenoid Position Adjustment is required, (Refer to "1.Pinch Solenoid Adj." In the Section 3).

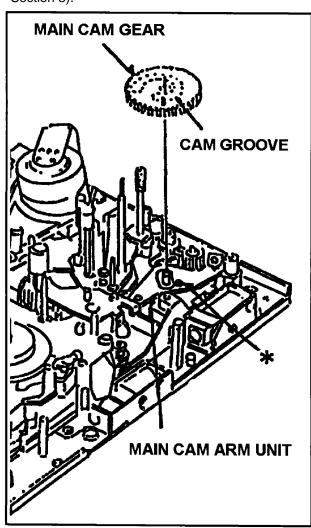


Fig.M13

5-8. Brake Arm & Brake Solenoid Replacement

- Remove the Cassette Cover, both Side Panel and Cassette Up Unit, and then open MAIN C.B.A.
- Disconnect the connectors P505, P508 on RF & Servo C.B.A.
- 3. Unscrew the 2 screws(A)to remove the Supply Brake Solenoid and unscrew the screw(B)to remove the Solenoid base as shown in Figure M14.
- 4. Remove the cut washer (C)to remove the Supply Brake Arm.
- Unscrew the 2 screws(D)to remove the Take Up Brake Solenoid and unscrew the screw(E)to remove the Solenoid base as shown in Figure M14.
- Remove the cut washer(F)to remove the Take Up Arm.

(Installation)

 Install the new cassette Brake Base Unit according to the reverse procedures for removal.

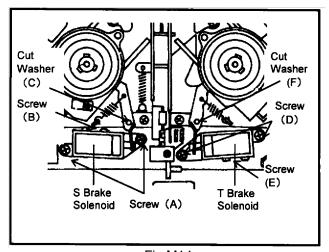


Fig.M14

After installing, the Brake Solenoid Position Adjustment required (Refer to item 16 in this section).

5-9. MIC Base Unit Replacement

(Removal)

- Remove the Cassette Cover, both Side Panel and Cassette Up Unit, and then open MAIN C.B.A.
- 2. Disconnect the connector P507 on Servo C.B.A.
- 3. Unscrew the 2 screws (A) and remove the MIC Base Unit as shown in Figure M15.

(Installation)

- Install the new MIC Base Unit according to the reverse procedure for removal.
- Confirm that the M cassette touches to MIC Base Unit properly.

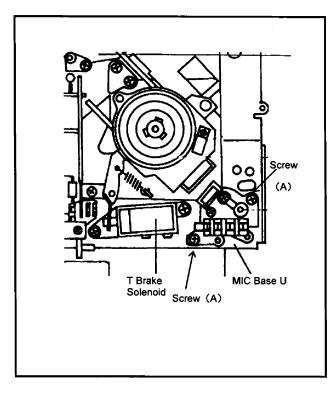


Fig.M15

5-10. S1 & T1 Post Loading Arm Unit Replacement and Adjustment

(Removal)

- Remove the Cassette Cover, both Side Panel and Cassette Up Unit, and then open MAIN C.B.A.
- Remove the Mechanism Chassis Unit and the Drum Unit.
- 3. Remove the T1 Guide and the Cleaning Arm Unit.
- 4. Turn the Emergency Gear to be in middle loading position and unscrew the screw (D),(E) as shown in Figure M16.
- Remove the S5 Stopper Base and the Tension Arm Unit (Refertoitem14 &15).
- Unscrew the screw (A) and remove S1 Post from the Loading Rail as shown in Figure M16.
- Remove the Cut Washer (B) and remove the S1 Loading Arm Unit as shown in Figure M16.
- Unscrew the screws(C), and then remove the T1 Post from Loading Rail as shown in Figure M16.
- Remove the T1 Boat Unit from T1 Loading Arm Unit as shown in Figure M16.

(Installation)

- Install the new S1 or T1 Loading Arm Unit according to the reverse procedures for removal. Then S1 Post Loading Arm Unit Phase Adjustment should be performed.
- After installing, confirm that the S1 and T1 Post moves smoothly on the Loading Rail.

(Adjustment)

- Adjust S1 Post Loading Arm Unit so that the hole (A) should match with the hole (B) as shown in Figure M16.
- 2. When installing the T1 Boat Unit, the hole (A) Should match with the hole (B) as shown in Figure M17.
- Tension Arm, Post Height Pre-Adjustment and Linearity Adjustment (Refer to the Section 3) should be performed.

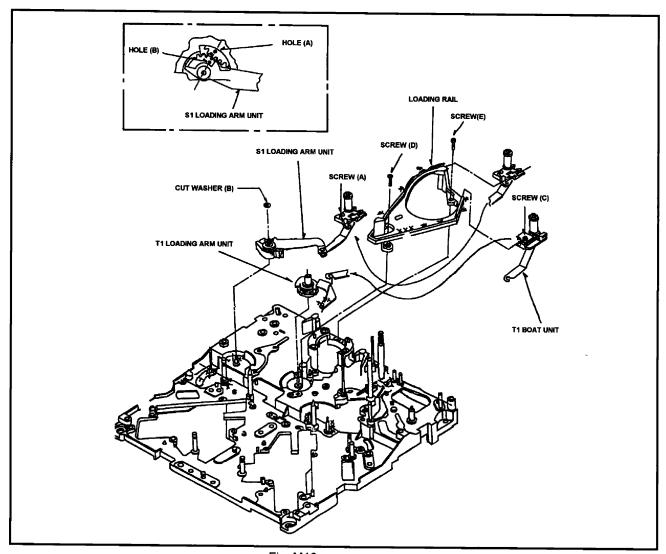
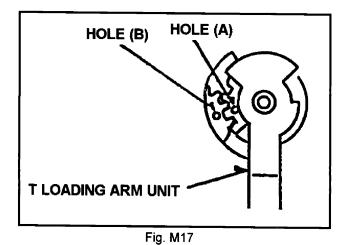


Fig. M16



5-11. Cleaner Solenoid Replacement and Adjustment

(Removal)

- Remove the Cassette Cover both Side Panel and Cassette Up Unit, and then open MAIN C.B.A.
- 2. Disconnect the connector P518 on the Servo C.B.A.
- Unscrew the 2 screws (A) and remove the Cleaner Solenoid Unit as shown in Figure M20.
- 4. Unscrew the 2 screws (B) and remove the Cleaner Solenoid as shown in Figure M20.

(Installation)

- 1. Install the new Cleaner Solenoid according to the reverse procedures for removal.
- After installing, Cleaner Solenoid Position adjustment should be performed as follows.

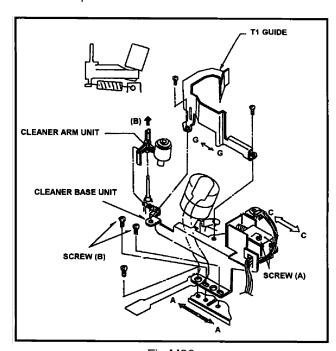


Fig.M20

5-11-1. Cleaner Solenoid Position Adjustment

- * Required Tools: Eccentric Driver (VFK0357)
- 1. Press the iron core of Cleaner Solenoid.
- Observe the clearance (D) between Cleaning Arm Unit and Cleaner Base Plate as shown in Figure M21.
 And make sure that it is in between 0.5 and 0.7mm.
- 3. If not, loosen the 2 screws (A) and adjust the position of Cleaner Solenoid Unit by moving to arrow direction (C⇔C) with eccentric driver so that the clearance (D) is within the specification, And tighten the 2 screws (A).
- 4. After adjustment, confirm as follows.
- 5. Press the iron core of Cleaner Solenoid to release, and then return the Cleaning Roller to original position.
- Press the iron core of the Cleaner Solenoid and confirm that the Cleaner Roller is rotated when the cylinder is rotated by hand.

Note: If the cleaner Base Plate is removed, Cleaner Roller Position Adjustment Should be performed.

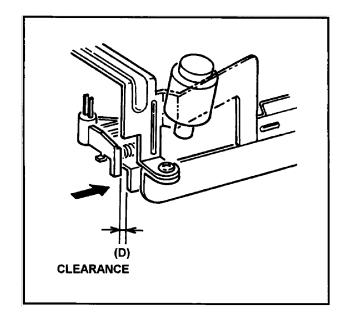


Fig.M21

5-11-2. Cleaner Roller Position Adjustment

*Required Tools : Eccentric Driver (VFK0357)

- Observe the clearance (A) between Cleaner Roller and Cylinder Unit as shown in Figure M22. And make sure that it is in between 1.0 and 1.2mm.
- If not, loosen the 2 screws (B) and adjust the position of Cleaner Base Plate by moving to arrow direction (A⇔A) with the Eccentric Driver so that the clearance (A) is within the specification. And tighten the 2 screws (B).

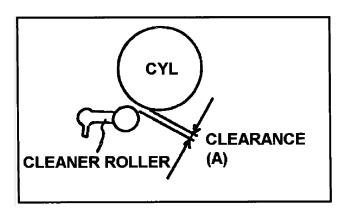


Fig.M22

5-12. S5 Post Base Unit Replacement

(Removal)

- 1. Remove the Cassette Up Unit.
- Unscrew the screw (A) and remove the S5 Post Base Unit as shown in Figure M23.

(Installation)

- 1. Install the S5 Post Base Unit according to the reverse procedures for removal.
- 2. After installing, Post Height Pre-adjustment and Linearity Adjustment (Refer to the Section 3.) should be performed.

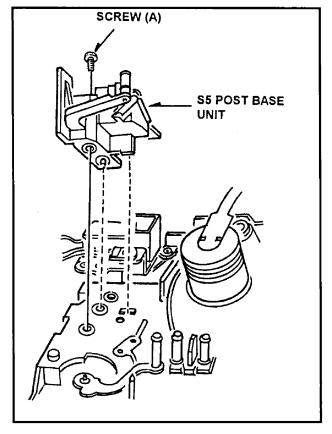


Fig.M23

5-13. Tension Arm Unit Replacement

(Removal)

- 1. Remove the Cassette Cover and Left Side Panel.
- 2. Remove the Cassette Up Unit.
- 3. Remove the Cut Washer (A) and pick up the Tension Reg. Spring. Then remove the Tension Arm Unit as shown in Figure M24.

(Installation)

- Install the new Tension Arm Unit according to the reverse procedures for removal.
- 2. After installing, Tension Arm Adjustment should be performed as follows.

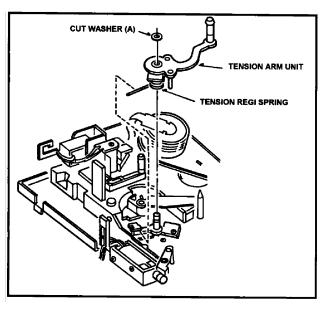
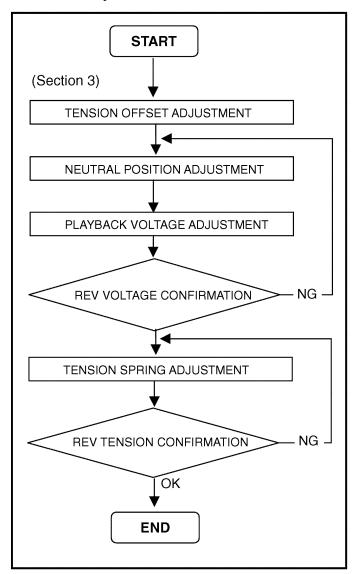


Fig.M24

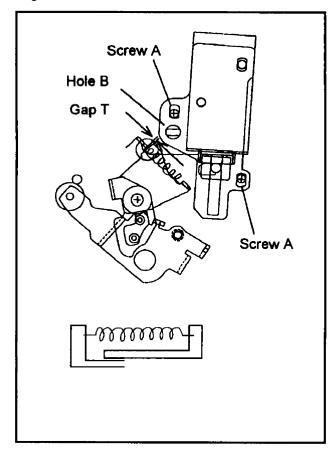
Tension Arm Adjustment Flowchart



5-14. Pinch Solenoid Adjustment

SPEC.	T=0.3mm
TEST	Gap T
ADJUST	Screw A, Hole B
MODE	Eject (Power OFF)
TOOL	VFK0357

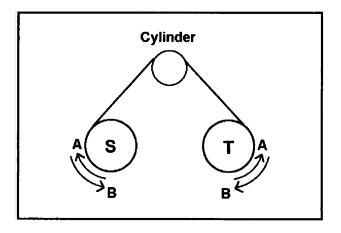
- 1. Confirm the power off.
- 2. Push the pinch roller by hand to be close to capstan.
- 3. Push the pinch solenoid by hand so that the Pinch roller contacts capstan.
- 4. Loosen the two screws A.
- 5. Adjust the hole B so that gap T is within the specification.
- 6. Tighten the two screws A.



5-15. Main Brake Torque Confirmation

SPEC.	Direction A: 0.4 ± 0.2cN.m			
	Direction B: 0.2 ± 0.1cN.m			
TEST	S Reel, T Reel			
MODE	Eject (Power OFF)			
TOOL	VFK71, VFK1191, VFK1152			

- 1. Confirm the power off.
- 2. Remove the Cassette Up Unit.
- Install the adapter (VFK1152) to the torque gauge (VFK71).
- 4. Put the torque gauge on S Reel.
- Turn the torque gauge to direction A until S Reel slips against brake.
- 6. Confirm the torque is within the specification.
- 7. Put the torque gauge on T Reel.
- 8. Turn the torque gauge to direction A until T Reel slips against brake.
- 9. Confirm the torque is within the specification.
- 10. Install the adapter (VFK1152) to the torque gauge (VFK1191).
- 11. Put the torque gauge on S Reel.
- 12. Turn the torque gauge to direction B until S Reel slips against brake.
- 13. Confirm the torque is within the specification.
- 14. Put the torque gauge on T Reel.
- Turn the torque gauge to direction B until T Reel slips against brake.
- 16. Confirm the torque is within the specification.

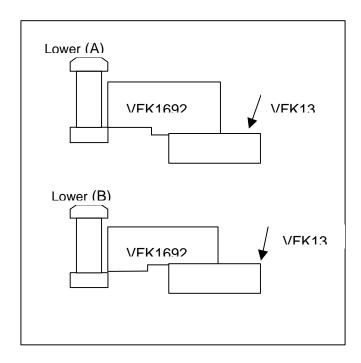


5-16. Post Height Preadjustment

MODE	Eject (Power OFF)
TOOL	VFK1348, VFK1692

- Turn the power OFF and then set the tube* to cover the TAPE DETECT LED and place the unit into no tape loading mode.
- 2. Install the Mech.Neutral Plate and adjust each post height as shown in figure.

Post	Limit	Post Driver
S4	Lower	VFK1149
S5	Lower	VFK1149
T4	Lower	VFK1151 (2.5mm Nut Driver)

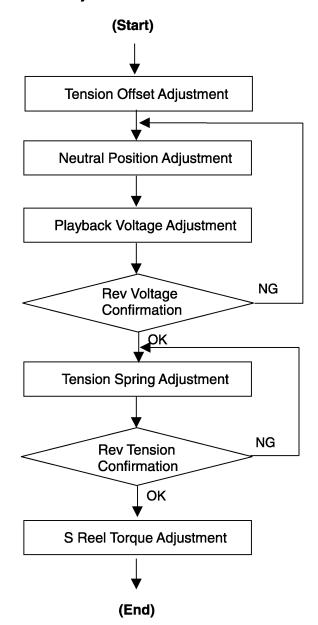


5-17. Reel Torque Adjustment

BOARD	RF & SERVO
SPEC.	60 ± 4mV (S.T)
TEST	TP300(S),TP301(T),TG302(GND)
ADJUST	VR601(S),VR602(T)
MODE	PLAY
M.EQ	Digital Volt Meter

- 1. Open the item "T TORQUE 5 TORQUE" on the service menu "VTR SERVICE 2/2".
- 2. Place the unit into PLAY mode with holding S reel by hand
- 3. Adjust the VR300 so that the DC voltage at TP300 is within the specification.
- 1. Adjust the VR301 so that the DC voltage at TP300 is within the specification.

Tension Adjustment Flowchart



5-18. Tension Offset Adjustment

BOARD	RF & SERVO
SPEC.	$2.5 \pm 0.05 V$
TEST	TP400
ADJUST	VR400
MODE	EJECT
M.EQ	Digital Volt Meter

1. Adjust the VR400 so that the DC voltage at TP400 is within the specification.

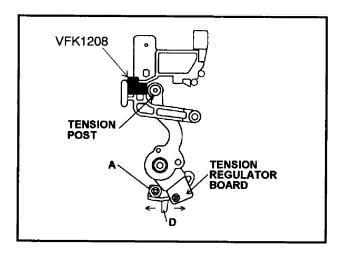
5-19. Neutral Position Adjustment

BOARD	RF & SERVO
SPEC.	2.5 ± 0.1V
TEST	TP400
ADJUST	Sensor
MODE	STOP
TOOL	VFK1208
M.EQ	Digital Volt Meter

- 1. Remove the cassette up unit.
- 2. Set the tube* to cover the TAPE DETECT LED and place the unit into no tape loading mode.
- 3.Install the black spacer (VFK1208) at the position as shown in figure. Adjust the sensor position so that the TP400 voltage is within the specification. To adjust, loosen the screw A and adjust the lever D.

Note.

1. Make a tube* by yourself.



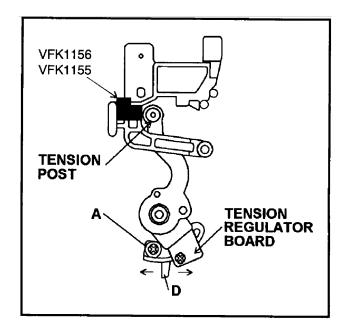
5-20. Play & Rev Tension Adjustment

	o
BOARD	RF & SERVO
SPEC.	(PLAY) 3.8 ± 0.05V
	(REV) 1.2 ± 0.3V
TEST	TP400
ADJUST	VR401
MODE	STOP
TOOL	VFK1156,VFK1155
M.EQ	Digital Volt Meter

- 1. Set the tube* to cover the TAPE DETECT LED and place the unit into no tape loading mode.
- Install the black spacer (VFK1156) at the position as shown in figure. Adjust theVR401 so that the TP400 voltage is within the specification (PLAY). To adjust, loosen the screw A and adjust the lever D.
- Install the gold spacer (VFK1155) at the same position instead of the black one. Confirm that the TP400 voltage is within the specification (REV).

Note.

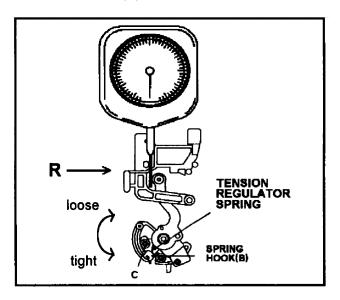
- 1. Make a tube* by yourself.
- In case that it is impossible to adjust within the specification, readjust from Neutral Position Adjustment.



5-21. Tension Spring Adjustment

BOARD	RF & SERVO
SPEC.	110 ± 10mN.m
TEST	TP400
ADJUST	Spring hook (B)
MODE	STOP
TOOL	VFK1188
M.EQ	Digital Volt Meter

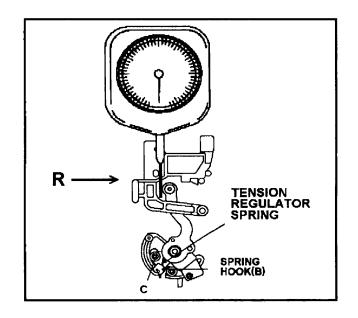
- 1. Remove the cassette up unit.
- 2. Set the tube* to cover the TAPE DETECT LED and place the unit into no tape loading mode.
- 3. Insert the tension gauge to push the tension post to the direction R until the voltage at the TP400 becomes 3.8V (PLAY position).
- 4. Adjust the position of hook (B) so that the indication of gauge is within the specification. To adjust hook (B), loosen the screw (C).



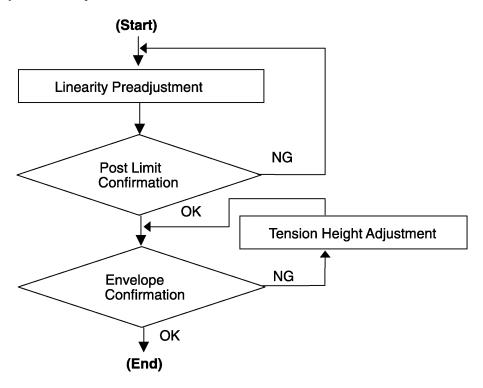
5-22. REV Tension Confirmation

RF & SERVO
180 ± 20mN.m
TP400
STOP
VFK1188
Digital Volt Meter

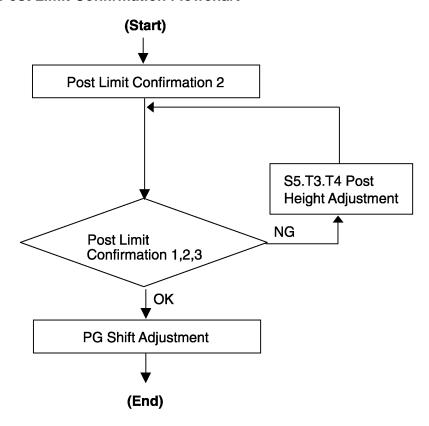
- 1. Set the tube* to cover the TAPE DETECT LED and place the unit into no tape loading mode.
- Insert the tension gauge to push the tension post to the direction R until the voltage at the TP400 becomes 1.2V (REV position).
- Confirm that the indication of gauge is within the specification. If not, make the Tension Spring Adjustment again.



Tape Path Adj. Flowchart



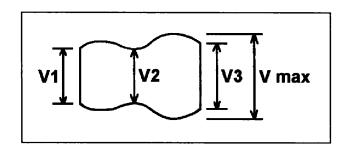
Post Limit Confirmation Flowchart



5-23. Linearity Preadjustment

SPEC.	V1/Vmax,V2/Vmax,V3/Vmax >=0.8
TEST	TP1 (RF & SERVO Board)
ADJUST	S1,T1 Post Heiht
MODE	PLAY (ATF)
TAPE	VFM3010EDL
M.EQ	Oscilloscope
TOOL	VFK1149

- 1. Play the alignment tape.
- 2. Adjust the S1 and T1 posts so that the envelope output is within the specification.



5-24. Post Limit Confirmation 1

SPEC.	Post limits shown in the table.
	No tape curl
MODE	PLAY
TAPE	BLANK TAPE
TOOL	VFK1149,VFK1151

Post Limit Table

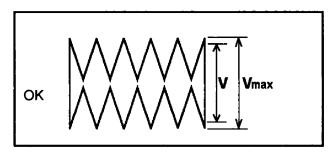
Post	Limit	Adjustment
S5 Post	Lower Limit or Free	S5 Post Height
S4 Post	Lower Limit	S4 Post Height
S1 Post	Upper Limit	Linearity
T1 Post	Upper Limit	Linearity
T4 Post	Lower Limit or Free	T4 Post Height

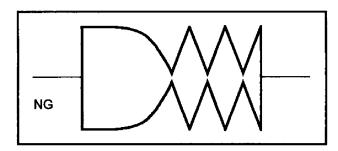
1. Confirm the post limit of each post and adjust in case of necessary.

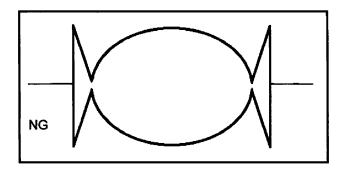
5-25. Envelope Confirmation 1

SPEC.	V/Vmax >= 0.9
TEST	TP1 (RF & SERVO Board)
MODE	FF,REW,REV(PLAY&REW)
TAPE	VFM3010EDL
M.EQ	Oscilloscope

- 1. Confirm the envelope in each mode.
- 2. If out of specification, adjust the S4 post height again.







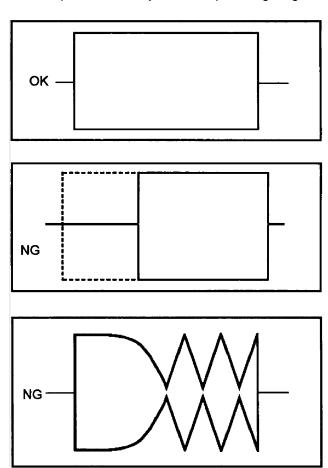
*REVX1 Setting

- (1) Press the PLAY key repeatedly twice to enter the STILL mode.
- (2) Press the RESET and PLAY buttons simultaneously.

5-26. Envelope Confirmation 2

SPEC.	Envelope appears immediately.
TEST	TP1 (RF & SERVO Board)
MODE	REW/REV(PLAY & REW) →PLAY
	FF→PLAY
	LOADINGPLAY
TAPE	NTSC: VFM3580KL
	PAL: VFM3680KL
M.EQ	Oscilloscope

- Confirm that the envelope appears immediately after the mode is switched from REW to PLAY, from REV to PLAY from FF to PLAY and from LOADING to PLAY.
- 2.If out of specification, adjust the S4 post height again.



*For the REV mode, refer to the item number 15.

5-27. Post Limit Confirmation 2

SPEC.	Post limits shown in the table.	
	No tape curl	
MODE	REV (PLAY & REW)	
TAPE	DV L CASSETTE	
TOOL	VFK1149,VFK1151	

Post Limit Table

Post	Limit	Adjustment
S5 Post	Upper Lower Limit or	S5 Post Height
	Free	
S4 Post	Lower Limit or Free	S4 Post Height
S1 Post	Upper Limit	Linearity
T1 Post	Upper Lower Limit or	Linearity
	Free	
T4 Post	Lower Limit	T4 Post Height

1. Confirm the post limit of each post and adjust again in case of need.

5-28. Post Limit Confirmation 3

SPEC.	Post limits shown in the table.	
	No tape curl	
MODE	FF, REW	
TAPE	DV L CASSETTE (beginning or ending	
	portion)	
TOOL	VFK1149,VFK1151	

Post Limit Table

Post	Limit	Adjustment
S5 Post	Upper Lower Limit or	S5 Post Height
	Free	
S4 Post	Lower Limit or Free	S4 Post Height
S1 Post	Upper Limit	Linearity
T1 Post	Upper Lower Limit or	Linearity
	Free	
T4 Post	Free	T4 Post Height

- 1. Confirm Post Limit Confirmation 1 and 2 Playing beginning or ending portion of L cassette.
- 2. Confirm the post limit of each post and adjust again in case of necessary.
- 3. If T3 post is adjusted, confirm that the tape has no curl at T3 post while loading or unloading.

5-29. PG Shifter Adjustment

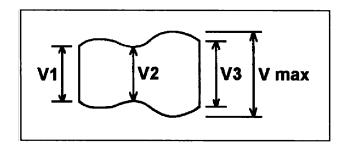
BOARD	Servo	
SPEC.	126.3 ± 2.5μs	
TEST	TP501,TP500	
ADJUST	SERVICE MENU 2/2 PG SHIFT	
MODE	PLAY	
TAPE	VFM3010EDL	
M.EQ	Oscilloscope	

1. Adjust the PG SHIFT of the service menu the specification (Trigger: TP501).

5-30. Linearity Adjustment

SPEC.	V1/Vmax,V2/Vmax,V3/Vmax >= 0.8
TEST	TP1 (RF & SERVO board)
MODE	PLAY
TAPE	Blank Tape
TOOL	VFK1149
M.EQ	Oscilloscope

- 1. Record the color bar signal.
- 2. Play back the recorded portion and confirm that the envelope output is within the specification.



5-31. LISTA Adjustment Procedures

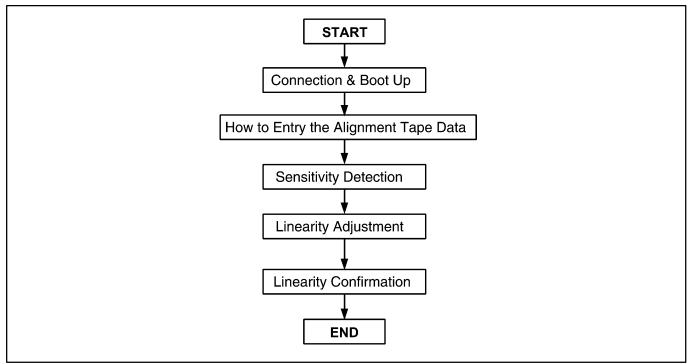


Figure 1

5-32. LISTA Connection and Boot Up

TAPE	VFM3000EDL (DV LISTA)	
M. EQ	Personal Computer (A/D Board should be installed.)	
TOOL	VFK1481C (LISTA Software), VFK1186 (LISTA Cable), VFK1300 (A/D Converter Board),	
	VFK1409S (Measuring Board), VFK1410 (Connection Board)	
TP	TP F2 : ATF-ERR (VFK1409S), TP HID1 : TRG (VFK1409S), TP GND : GND (VFK1409S)	

Connect a PC, the Measuring Board and the AG-DVC200 as shown below.

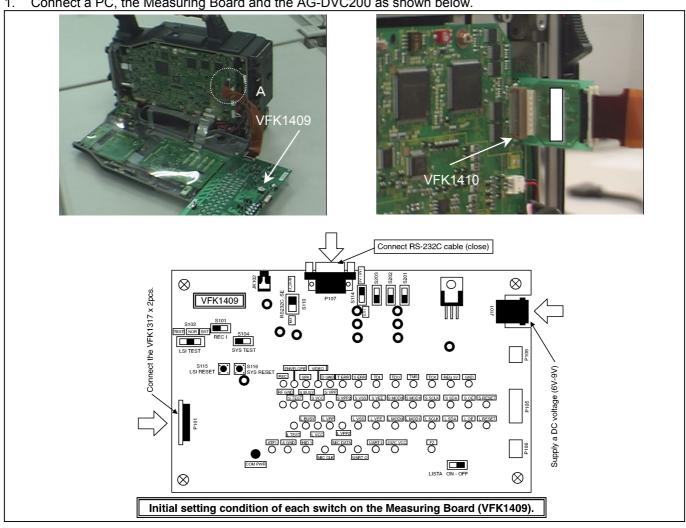


Figure 2

- 2. Connect the clips of the LISTA cable to test point on the Measuring Board. (VFK1409S) (Refer to Items "Sensitivity Adjustment" and "Linearity Adjustment".)
- Set the switches on the Measuring Board as shown below.

<VFK1409S>

SW REF. NAME OF SW		SETTING POSITION	
	LISTA	ON Position	
	ON - OFF		

Figure 3

4. Boot up the LISTA software on DOS mode.

< How to Install and Boot Up >

Copy all files on the floppy disk (VFK1481C : LISTA Software) to created directly on PC (i.e.; C:\text{LISTA}). Type "LISTA" and press ENTER key, then the LISTA software VFK1481C boot up.

- After the LISTA software boot up, <<< FORMAT SELECT >>> display appears. Select the item "DV".
- After select the format, <<< VTR SELECT >>> display appears, and select the model "DVC200".





5-33. How to Entry the Alignment Tape Data

- 1. Select the item "<4> Alignment Tape" on the LISTA main menu.
- 2. Select the item "<2> ENTRY" on the alignment menu.
- 3. After the screen of **<<Alignment Tape Data Entry>>** is displayed, first input the Serial Number of Alignment tape printed on the tape label. And input the number "0" or "1" for selected the PAL/NTSC. And after that for entry the tape type, incase of DVCPRO input to "0", in case of DV input to "1" for DV. (input "0" for DVCPRO)
- 4. After select the tape type, the frame for input the DATA and CHECK SUM appears on the screen. Input the numerical value on the data sheet, which are enclosed with alignment tape. If input the wrong number, appear the error message on the screen, then confirm that the data on the sheet.
- 5. After entry the data, select "<1> SELECT" on the Alignment Tape Menu and select the serial number of the alignment tape.

<< Alignment Tape Data Entry >> Serial No. 0596003 (NTSC) 10μm

- 0.1
0.1
0.0
0.2
0.6
0.5
0.7
0.9
1.0
0.8

[11]	0.7
[12]	1.0
[13]	0.7
[14]	0.5
[15]	0.2
[16]	- 0.5
[17]	- 0.3
[18]	- 0.3
[19]	- 0.1
[20]	- 0.6

[21]	- 0.4
[22]	- 0.2
[23]	- 0.7
[24]	- 0.6
[25]	- 0.7
[26]	- 0.3
[27]	- 0.4
[28]	- 0.4
[29]	- 0.6
[30]	- 0.3

[31]	- 0.4
[32]	- 0.6
[33]	- 0.3
[34]	- 0.2
[35]	- 0.1
[36]	- 0.3
[37]	- 0.1

[CS] - 0.6

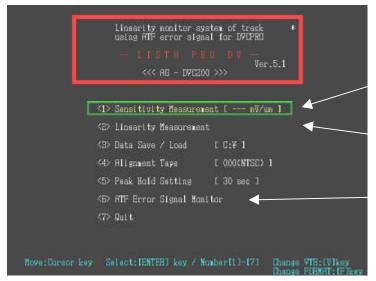
6. Next, select the Serial number of the Alignment tape on the screen. In case of LISTA software does not have alignment tape data registered data entry is needed. Press the ESC key, then main menu is displayed on the

screen. And select the item "<4> Alignment Tape" for entry the data on the attachment sheet, which is enclosed with alignment tape.

7. If LISTA software has data of alignment tape, select the serial number of Alignment tape, then message "ok?(y/n)" appears on the screen. And press "Y" or "ENTER" key, then LISTA main menu is displayed on screen.

5-34. LISTA Sensitivity Detection

TP	TP F2 : ATF ERR (VFK1409S), TP HID1 : TRG (VFK1409S), TP GND : GND (VFK1409S)	
VTR MODE	PLAY	
ADJ. MODE	Tape Speed 101.2% Mode (AUTO)	
TAPE	VFM3000EDL (DV LISTA)	
SPEC.	$150\pm10~(\text{mV}/\mu\text{m})$	



Select at Sensitivity Detection.

Select at Linearity Adjustment.

Select at Sensitivity Adjustment.

Figure 8

- 1. Insert the DV Alignment Tape (VFM3000EDL).
- 2. Select item "<1> Sensitivity Measurement " and press "ENTER".
- 3. Then the tape is played (tape speed: 101.2%) automatically.
- 4. Adjust the RF GAIN on the service menu so that the sensitivity Value of the Screen is within the Specification.

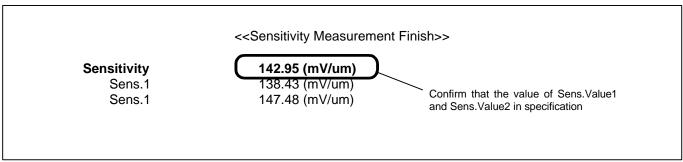


Figure 9

5-35. LISTA Linearity Adjustment

TP	TP F2 : ATF ERR (VFK1409S), TP HID1 : TRG (VFK1309S), TP GND : GND (VFK1409S)	
ADJ.	S1 and T1 Post Height	
VTR MODE	PLAY	
ADJ. MODE	Linearity Adjustment Mode (AUTO)	
TAPE	VFM3000EDL (DV LISTA)	
TOOL	VFK1149A: Post Driver	
SPEC.	Linearity: less than 3µm	

- 1. Insert the DV Alignment Tape (VFM3000EDL).
- 2. Select the item "<2> Linearity Measurement" on the LISTA Main Menu, then Linearity Waveform appears.
- 3. When the waveform as shown below is displayed on the screen, press the "BS (Back Space)" key to move the waveform at the center of the scale on screen. Adjust S1 and T1 post height by using the post driver so that the linearity waveform becomes as flat as possible, and it should be within the specification.

(Adjust linearity to have waveform in between the red dot line on the screen.)

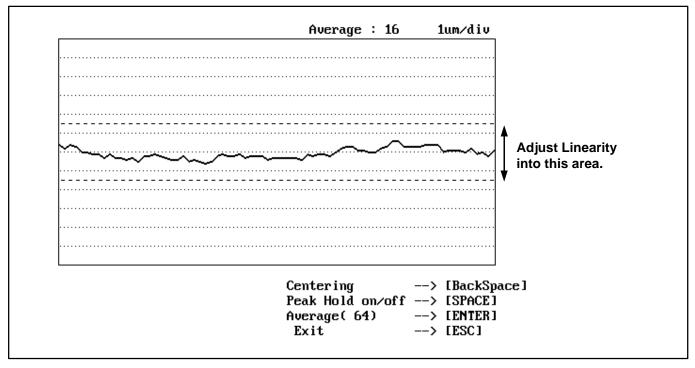


Figure 10

POINT:

The part of left side of waveform (entrance side) is adjusted by height of S1 post and part of right side of waveform (exit side) is adjusted by height of T1 post.

Lower part of above waveform of figure is displayed lead of Cylinder.

When the post driver is remove from upper part of post, linearity waveform may be changed.

After finish this adjustment, eject the tape and insert the tape again to confirm the shape of linearity waveform does not changed.

ELECTRICAL ADJUSTMENTS

CONTENTS

1. VDDM Voltage Adjustment	EAD-1
2. T-Reel Torque Offset Adjustment	EAD-1
3. S-Reel Torque Offset Adjustment	EAD-1
4. Tension Offset Voltage Adjustment	EAD-1
5. Start/End Detect Sensitivity Adjustment	EAD-1
6. PG Shifter Adjustment	EAD-2
7. Initial Setting	EAD-2
8. Model Setting 1	EAD-2
9. Model Setting 2	EAD-3
10. INT Frequency Adjustment	EAD-3
11. G-ch.Input Level Adjustment	EAD-3
12. Pre-Amp. R/B-ch.Output Level Adjustment	EAD-3
13. Pre-Amp. R/B-ch.Output DC Level Adjustment	EAD-4
14. White Clip Level Adjustment	EAD-4
15. Auto Adjustment: Color Temperature 3200°K	EAD-4
16. Auto Adjustment: Color Temperature 5600°K	EAD-5
17. White Shading Correction	EAD-5
18. White Blemish Compensation	EAD-5
19. Video Out Level Adjustment (1)	EAD-6
20. Video Out Level Adjustment (2)	EAD-6
21. Y A/D Clamp Level Adjustment	EAD-6
22. PB, PR Clamp Level Adjustment	EAD-7
23. Real-Time Clock Confirmation	EAD-7
24. PB Level Adjustment	EAD-7

Electrical Adjustments

1. VDDM Voltage Adjustment

BOARD	MAIN
M.POINT	TP3701 (VDDM)
ADJUST	VR3701 (VDDM_ADJ)
MODE	EE
TAPE	
M.EQ.	Digital Voltmeter
SPEC.	$2.375V \pm 0.02V$

 Monitoring the voltage at TP3701, adjust VR3701 so that the DC voltage comes in the specification.

2. T-Reel Torque Offset Adjustment

BOARD	RF & SERVO
M.POINT	TP301, TP302 (GND)
ADJUST	VR301
MODE	ADJ. MODE
TAPE	
M.EQ.	Digital Voltmeter
SPEC.	$60V \pm 4mV$

- 1. Hold the cassette carriage at its down position without inserting any cassette.
- 2. Select VTR SERVICE 2/2.. in VTR MAIN menu using JOG, and press JOB button.
- 3. Select T_TORQUE in VTR SERVICE 2/2 menu using JOG, and press JOB button.
- 4. Monitoring the voltage at TP301 while locking the T-reel motor by hand, adjust VR301 so that the voltage comes in the specification.
- 5. After finishing the adjustment, exit the adjustment mode.

3. S-Reel Torque Offset Adjustment

BOARD	RF & SERVO
M.POINT	TP300, TP302 (GND)
ADJUST	VR300
MODE	ADJ. MODE
TAPE	
M.EQ.	Digital Voltmeter
SPEC.	$60V \pm 4mV$

- 1. Hold the cassette carriage at its down position without inserting any cassette.
- 2. Select VTR SERVICE 2/2.. in VTR MAIN menu using JOG, and press JOB button.
- 3. Select S_TORQUE in VTR SERVICE 2/2 menu using JOG, and press JOB button.
- 4. Monitoring the voltage at TP300 while locking the S-reel motor by hand, adjust VR300 so that the voltage comes in the specification.

5. After finishing the adjustment, exit the adjustment mode.

4. Tension Offset Voltage Adjustment

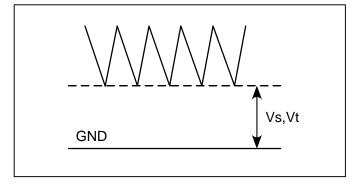
BOARD	RF & SERVO
M.POINT	TP400 (TENSION)
ADJUST	VR400
MODE	EJECT
TAPE	
M.EQ.	Digital Voltmeter
SPEC.	$2.5V \pm 0.1V$

1. Monitoring the voltage at TP400, adjust VR400 so that the DC voltage comes in the specification.

5. Start/End Detect Sensitivity Adjustment

BOARD	RF & SERVO	
M.POINT	TP601(Vs: S PHOTO), TP600 (Vt: T PHOTO)	
ADJUST	VR601(Vs: S PHOTO), VR600 (Vt: T PHOTO)	
MODE	STOP	
TAPE	Tape for Start/End Detection	
M.EQ.	Oscilloscope	
SPEC.	$2.2V \pm 0.6V$	

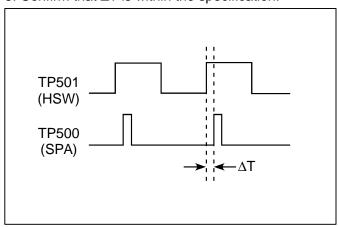
- 1. Select VTR SERVICE 2/2.. in VTR MAIN menu using JOG, and press JOB button.
- 2. Select T/S_PHOTO in VTR SERVICE 2/2 menu using JOG, and press JOB button.
- 3. Set the Tool for Tape Start/End Detect Level Adjustment.
- 4. Monitoring the waveform at TP601 (S PHOTO), adjust VR601 so that the voltage comes in the specification.
- Monitoring the waveform at TP600 (T PHOTO), adjust VR600 so that the voltage comes in the specification.



6. PG Shifter Adjustment

BOARD	RF & SERVO
M.POINT	TP501(HSW),
	TP500 (SPA)
ADJUST	[VRT SERVICE 2/2]
	PG SHIFT
MODE	STOP
TAPE	Color Bar
M.EQ.	Oscilloscope
SPEC.	$\Delta T = 126.69 \pm 2.5 \text{ms}$

- Select VTR SERVICE 2/2.. in VTR MAIN menu using JOG, and press JOB button.
- 2. Select PG SHIFT in VTR SERVICE 2/2 menu using JOG, and press JOB button.
- 3. Confirm that ΔT is within the specification.



7. Initial Setting

BOARD	
M.POINT	VIDEO OUT
ADJUST	
MODE	
TAPE	
M.EQ.	Color Monitor
SPEC.	

- 1. Turn on power while simultaneously pressing both ITEM SW and UP SW of I/F tool.
- Switch on No.1 of SW6300 on MAIN P.C.B and press MAIN menu button twice to enter RAM Editor mode.
- 3. Basic operation: Select items one by one using PAGE and ITEM buttons and change each setting with UP/DOWN buttons.
- 4. After selecting address FFE16C and setting its value on the right to "00", turn off power.

RAM Editor		English
FFE16C FFE16D	55 00	NTSC
FFE16E	00	E300
FFE16F FFE170	00 00	
FFE171	00	
FFE172 FFE173	00 00	
FFE174 FFE175	00 00	

8. Model Setting 1

BOARD	
M.POINT	VIDEO OUT
ADJUST	
MODE	
TAPE	
M.EQ.	Color Monitor
SPEC.	

- 1. Turn on power while simultaneously pressing both ITEM SW and YES SW to enter RAM Editor mode.
- 2. Select E600 (Japanese NTSC).

RAM Editor		Japanese
FFE100	55	NTSC
FFE101 FFE102	00 00	E600
FFE103 FFE104	00 00	
FFE105	00	
FFE106 FFE107	00 00	
FFE108 FFE109	00 00	

9. Model Setting 2

BOARD	
M.POINT	VIDEO OUT
ADJUST	
MODE	
TAPE	
M.EQ.	Color Monitor,
	Vector Scope
SPEC.	714mV ± 15mV

- 1. Check to be sure that the 100% color bar signal voltage is within the specification, and if it is out of the specification, adjust it by setting the address to FF21C.
- Set the address to FFE21, and adjust the color bar signal level so that the chrominance dots comes in each square frame on the vector scope. (Initial value: E0)
- 3. Set the address to FFE21, and adjust the color bar signal level so that the color burst level becomes 75% on the vector scope.

RAM Editor		Japanese
FFE21E FFE21F FFE220 FFE221 FFE222 FFE223 FFE224 FFE225 FFE226	E0 F8 00 00 00 00 00 00	NTSC E600

10. INT Frequency Adjustment

BOARD	MAIN
M.POINT	TP8001
ADJUST	VR8283
MODE	
TAPE	
M.EQ.	Frequency Counter
SPEC.	28.63636MHz ± 10Hz

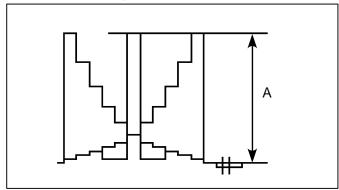
1. Monitoring the frequency at TP8001, adjust VR8283 so that the frequency comes in the specification.

Note) Disconnect the GEN LOCK when adjusting this frequency.

11. G-ch.Input Level Adjustment

BOARD	MAIN
M.POINT	TP201
ADJUST	Lens Iris
OBJ. CHART	2000Lux, 3200°K, Gray Scale
TAPE	
M.EQ.	Oscilloscope
SPEC.	$A = 300 \text{mV} \pm \text{mV}$

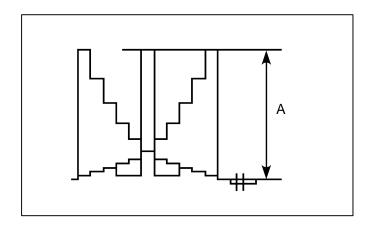
1. Monitoring the waveform at TP201, adjust Lens Iris so that the voltage level comes in the specification.



12. Pre-Amp. R/B-ch.Output Level Adjustment

BOARD	PREAMP
M.POINT	TP101, TP301(MAIN P.C.B.)
ADJUST	R155, R555 (PREAMP P.C.B.)
OBJ. CHART	2000Lux, 3200°K, Gray Scale
TAPE	
M.EQ.	Oscilloscope
SPEC.	$A = 300 \text{mV} \pm 5 \text{mV}$

- 1. Monitoring the waveform at TP101, adjust R555 so that the voltage level comes in the specification.
- 2. Monitoring the waveform at TP301, adjust R155 so that the voltage level comes in the specification.
- Note) Take note that the order of R, G, B arrangement is reversed each other between PREAMP P.C.B. and MAIN P.C.B.

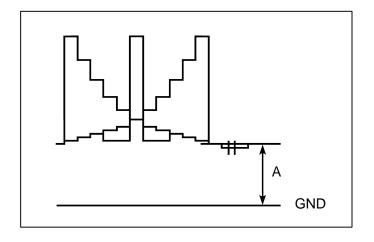


13. Pre-Amp. R/B-ch.Output DC Level Adjustment

BOARD	PREAMP
M.POINT	TP101, TP301(MAIN P.C.B.)
ADJUST	R163, R563 (PREAMP P.C.B.)
OBJ. CHART	2000Lux, 3200°K, Gray Scale
TAPE	
M.EQ.	Oscilloscope
SPEC.	$A = R-ch.: 100mV \pm 5mV,$
	B-ch.: 300mV ± 5mV

- 1. Monitoring the waveform at TP101, adjust R563 so that DC level A comes in the specification.
- 2. Monitoring the waveform at TP301, adjust R163 so that DC level A comes in the specification.
- According to 3-1-12, monitor the Pre-amp. R/B-ch Output Level, and if the level is out of the specification, adjust it again, then make this DC level adjustment again, and repeat these adjustments until each level comes in its specification.

Note) Take note that the order of R, G, B arrangement is reversed each other between PREAMP P.C.B. and MAIN P.C.B.

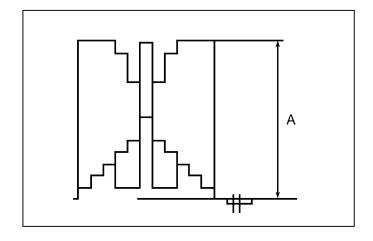


14. White Clip Level Adjustment

BOARD	PREAMP
M.POINT	TP7101(R-ch.), TP7201(G-ch.),
	TP7301(B-ch.)
	(MAIN P.C.B.)
ADJUST	R705(R-ch), R701(B-ch), R707(B-ch)
	(PREAMP P.C.B.)
OBJ. CHART	2000Lux, 3200°K, Gray Scale
TAPE	
M.EQ.	Oscilloscope
SPEC.	$A = 1200 \text{mV} \pm 20 \text{mV}$

- 1. Open the Iris to the full.
- 2. Monitoring the waveform at TP7101(R-ch), adjust R707 so that the level A comes in the specification.
- 3. Monitoring the waveform at TP7201(G-ch), adjust R701 so that the level A comes in the specification.
- 4. Monitoring the waveform at TP7301(B-ch), adjust R705 so that the level A comes in the specification.

Note) Take note that the order of R, G, B arrangement is reversed each other between PREAMP P.C.B. and MAIN P.C.B.



15. Auto Adjustment: Color Temperature 3200°K

BOARD	
M.POINT	
ADJUST	
OBJ. CHART	Gray Scale for Auto Adjustment
TAPE	
M.EQ.	Color Monitor
SPEC.	

1. Set Optical Filter 1.

- Turn ON power while simultaneously pressing ITEM SW, YES SW, and NO SW to enter AUTO ADJUST mode.
- Select Iris Memory in Auto Adjust menu and press YES SW.
- 4. Select Auto Adjust in Auto Adjust menu and press YES SW. Then, the Auto Adjustment starts.

	** Auto A	djust **	
Iris Memory	81		
Auto Adjust	Step	00	OK
1.Pedestal	00	00	00
2.Pulcan	00	00	00
3.Gain	00	00	00
4.Gamma	00	00	00
5.Flare	00		
6.S.W	80807f	817e817d	82
3200K Adjust	00	00	OK
ABC ADJ R±0		AWC ADJ	R±0
ABC ADJ B±0		AWC ADJ	B±0

16. Auto Adjustment: Color Temperature 5600°K

BOARD	
M.POINT	
ADJUST	
OBJ. CHART	Gray Scale for Auto Adjustment
TAPE	
M.EQ.	Color Monitor
SPEC.	

- 1. Set Optical Filter 3.
- 2. Select 5600°K Adjust in Auto Adjust mode and press YES SW. Then, the Auto Adjustment starts.
- 3. After OK is displayed, turn off power and reset Optical Filter 1.

	** Auto A	djust **	
Iris Memory	81		
Auto Adjust	Step	00	OK
1.Pedestal	00	00	00
2.Pulcan	00	00	00
3.Gain	00	00	00
4.Gamma	00	00	00
5.Flare	00	00	00
6.S.W	80807f	817e817d	82
5600K Adjust	00	00	OK
ABC ADJ R±0		AWC ADJ	R±0
ABC ADJ B±0		AWC ADJ	B±0

17. White Shading Correction

BOARD	MAIN
M.POINT	CAM OUT
ADJUST	
OBJ. CHART	Integrating Sphere (Defocusing)
TAPE	
M.EQ.	Color Monitor
SPEC.	

- 1. Set Electronic Shutter to 1/250, and adjust Lens Iris so that the CAM OUT peak level comes to 80%.
- 2. Set WHITE BAL SW to A-ch., and perform AWB, ABB, and AWB, successively.
- 3. Make the Lens defocus, and execute the White Shading Correction.
- 4. Confirm that no coloring appears on the monitor screen.

18. White Blemish Compensation

BOARD	
M.POINT	CAM OUT
ADJUST	
OBJ. CHART	Close Lens.
TAPE	
M.EQ.	Waveform Monitor
SPEC.	

- 1. Assign 30 dB to "H" gain.
- Monitor CAM OUT output and check whether there are any white blemishes. If there are any, turn ON the power switch while pressing ITEM ON button on I/F P.C.B. Then, White Blemish Compensation menu screen appears.
- 3. Press NO/BAR button on I/F P.C.B. Then, the Cursor display appears.
- 4. By moving the Cursor, execute compensation of up to three white blemishes in decreasing order of the blemish size.
- 5. By pressing NO/BAR button on I/F P.C.B., display Menu screen, and select END.
- 6. Set the camera gain to 0 dB, and confirm that there is no white blemishes that exceed 5% over the screen.

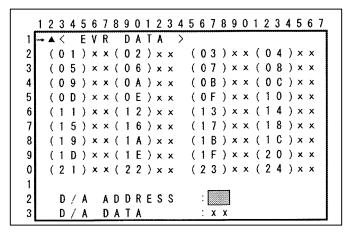
19. Video Out Level Adjustment (1)

BOARD	MAIN
M.POINT	VIDEO OUT
	$(75\Omega \text{ termination})$
ADJUST	EVR [SERVICE MENU]
MODE	PLAY
TAPE	Alignment Tape (Color Bar)
M.EQ.	Waveform Monitor
SPEC.	A=1.0±0.01Vp-p

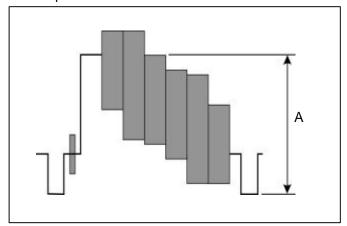
1. Set the EVR display to:

[SERVICE] menu EVR DATA..

D/A ADDRESS: 07



2. Playback the Alignment Tape and adjust D/A DATA in the menu so that the VIDEO OUT level comes in the specification.



20. Video Out Level Adjustment (2)

BOARD	MAIN	
M.POINT	VIDEO OUT	
	(75 Ω termination)	
ADJUST	EVR [SERVICE MENU]	
MODE	PLAY	
TAPE	Alignment Tape (Color Bar)	
M.EQ.	Vector Scope	
SPEC.	See the diagram below.	

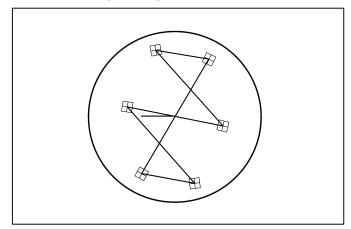
1. Set the EVR display to:

[SERVICE] menu EVR DATA..

D/A ADDRESS : 06

Playback the Alignment Tape and adjust D/A DATA in the menu so that all the VIDEO OUT chroma levels come in each square frame on the Vector Scope.

Note) Set the Vector Scope to BARS (75%) and SETUP (7.5TRE).



21. Y A/D Clamp Level Adjustment

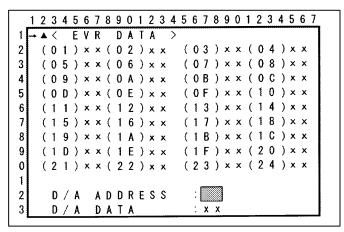
BOARD	MAIN
M.POINT	VIDEO OUT
	(75 Ω termination)
ADJUST	EVR [SERVICE MENU]
MODE	EE
TAPE	
M.EQ.	Waveform Monitor
SPEC.	See the diagram below.

1. SW setting : [OUTPUT]

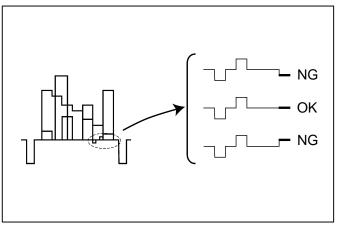
2. Set the EVR display to:

[SERVICE] menu EVR DATA..

D/A ADDRESS: 0B



3. Adjust D/A DATA in the menu so that the pedestal step difference of Y OUT disappears.



22. PB, PR Clamp Level Adjustment

BOARD	MAIN
M.POINT	VIDEO OUT
	(75 Ω termination)
ADJUST	EVR [SERVICE MENU]
MODE	EE
TAPE	
M.EQ.	Waveform Monitor
SPEC.	See the diagram below.

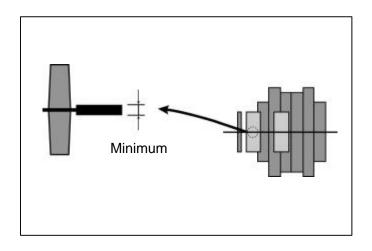
- 1. SW setting : [OUTPUT]
- 2. Set the EVR display to: [SERVICE] menu

EVR DATA..

D/A ADDRESS: 09, 0A

 Alternately adjust D/A ADDRESS 09 and 0A in the menu so that the carrier unbalance on the video signal WHITE level at the VIDEO OUT comes to the minimum.

Note) Set the FILTER of the Waveform Monitor to CHROMA.



23. Real-Time Clock Confirmation

BOARD	MAIN
M.POINT	TP6100(RTC CLK)
ADJUST	VC6100
MODE	STOP
TAPE	
M.EQ.	Frequency Counter
SPEC.	2.048000kHz ± 0.000020kHz

- 1. Monitor the frequency at TP6100 to be in the specification.
- 2. If the frequency is out of the specification, adjust VC6100.

Note) Measure the frequency at the time when the MAIN P.C.B. is cool.

24. PB Level Adjustment

BOARD	VTR MAIN (AUDIO)
M.POINT	AUDIO OUT (CH1/CH2)
	RCA Pin-Jack on the left
ADJUST	VR4400(CH1), VR4401(CH2)
MODE	PLAY
TAPE	Alignment Tape (Color Bar)
M.EQ.	Audio Analyzer
SPEC.	-6dBu±0.5dBu

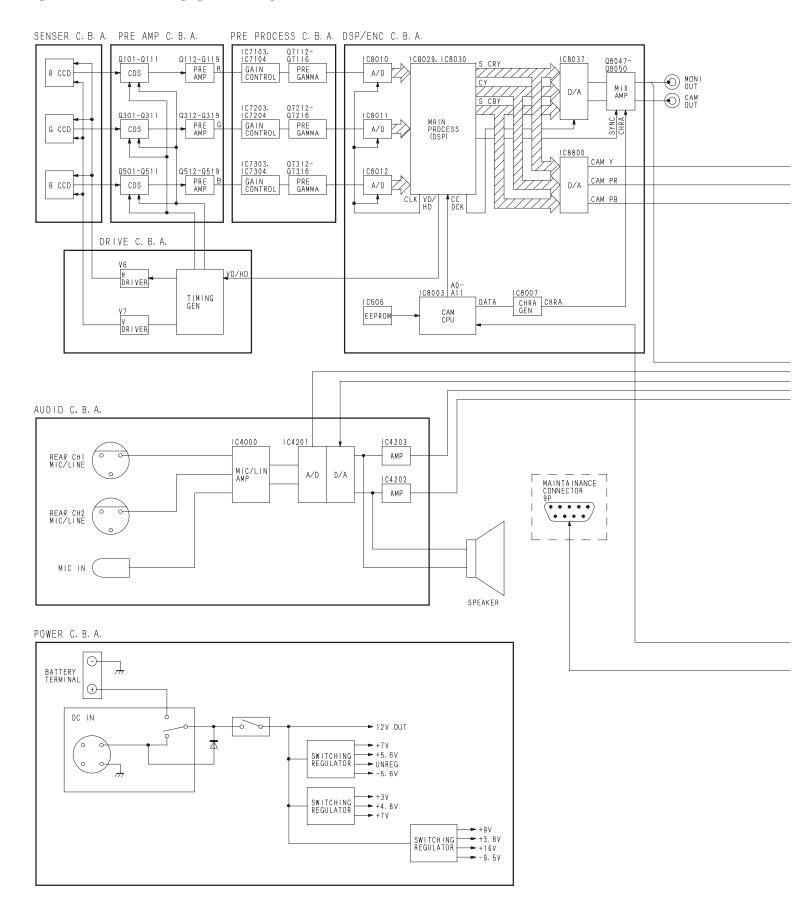
 Playback the Alignment Tape and adjust VR4400(CH1) and VR4401(CH2) so that the audio output level comes in the specification.

BLOCK DIAGRAM

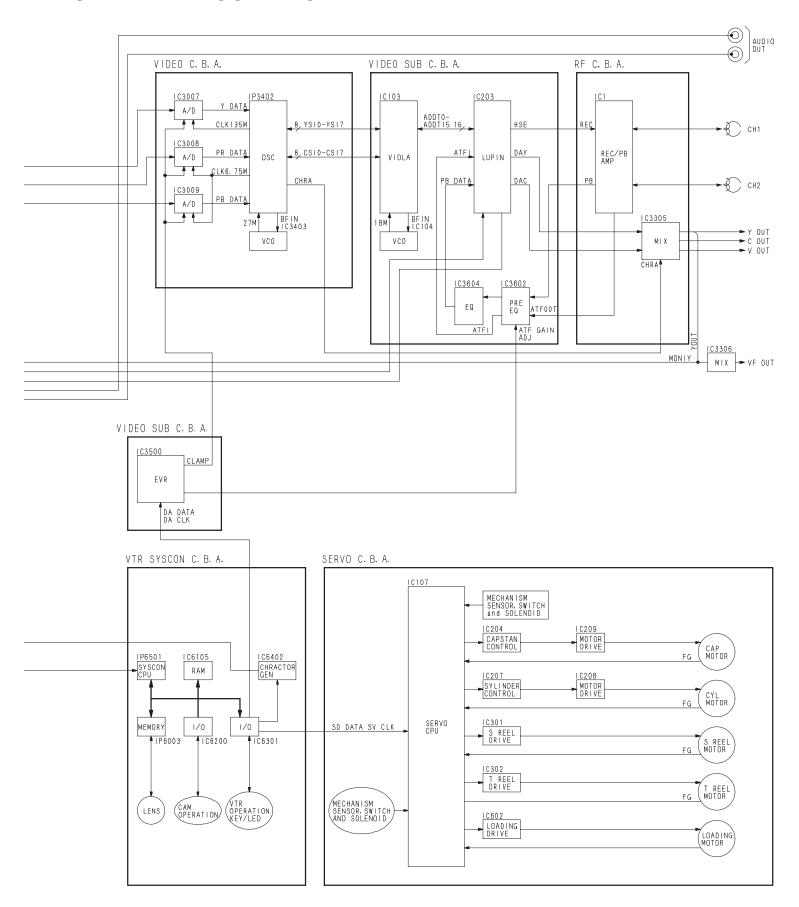
CONTENTS

OVERALL BLOCK DIAGRAM	BLK-1
PREAMP/DRIVE BLOCK DIAGRAM	BLK-3
MAIN (PRE PROCESS) BLOCK DIAGRAM	BLK-5
MAIN (DSP/ENCODER) BLOCK DIAGRAM	BLK-6
MAIN (VIDEO,VTR SUB,H/R AMP) BLOCK DIAGRAM	BLK-8
MAIN (AUDIO) BLOCK DIAGRAM	BLK-10
RF & SERVO BLOCK DIAGRAM	BLK-12
MAIN (VTR SYSCON) BLOCK DIAGRAM	BLK-14
POWER BLOCK DIAGRAM	BLK-16

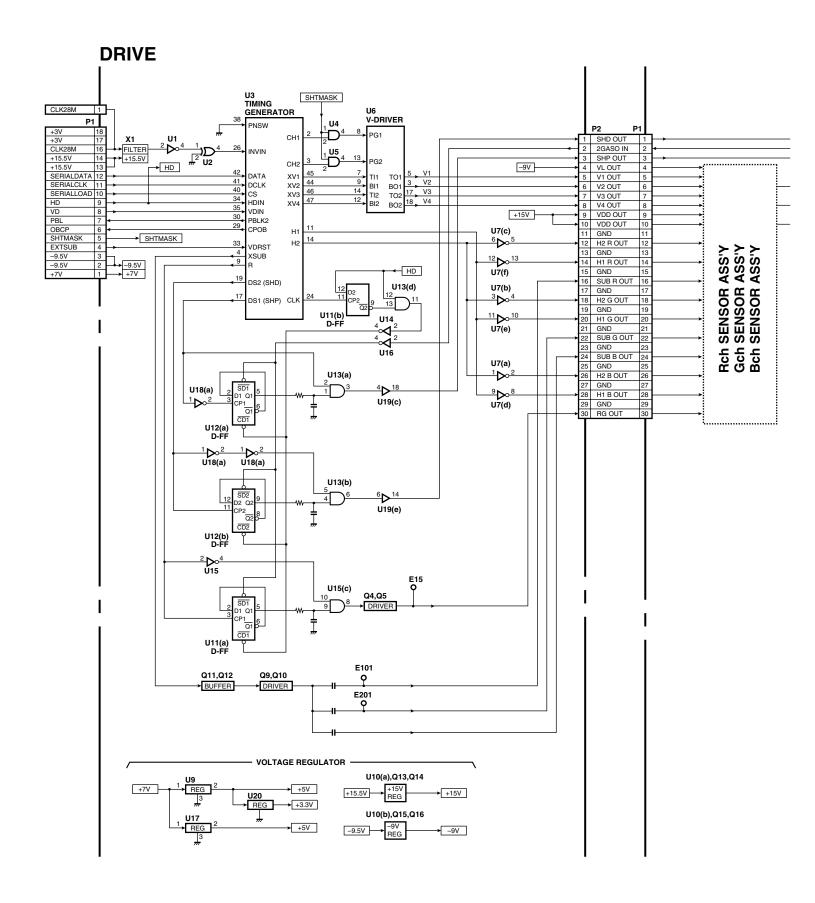
OVER ALL BLOCK DIAGRAM



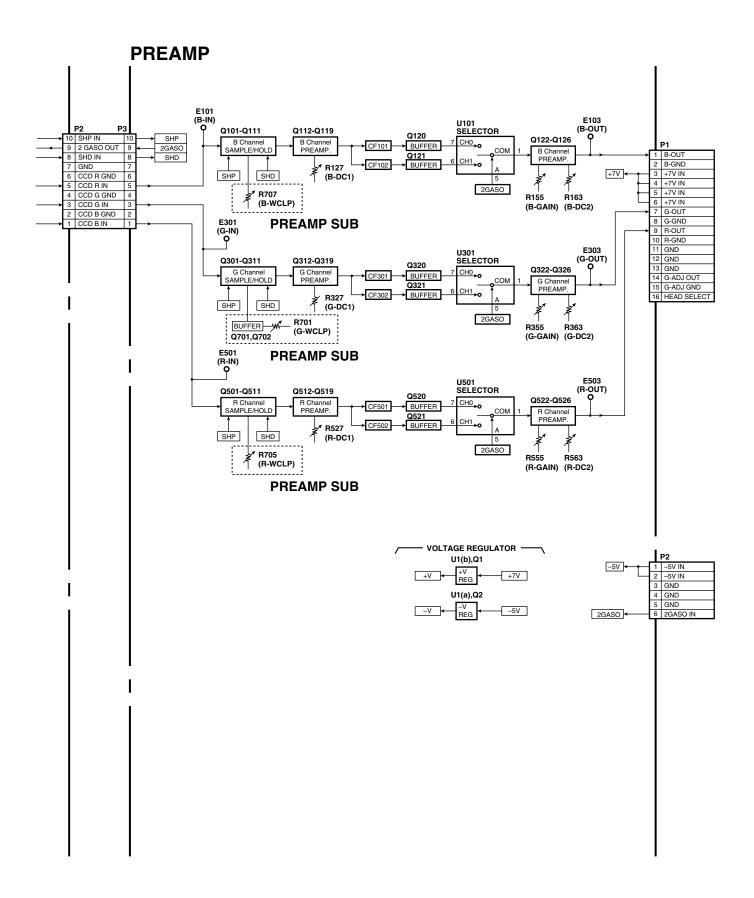
OVER ALL BLOCK DIAGRAM



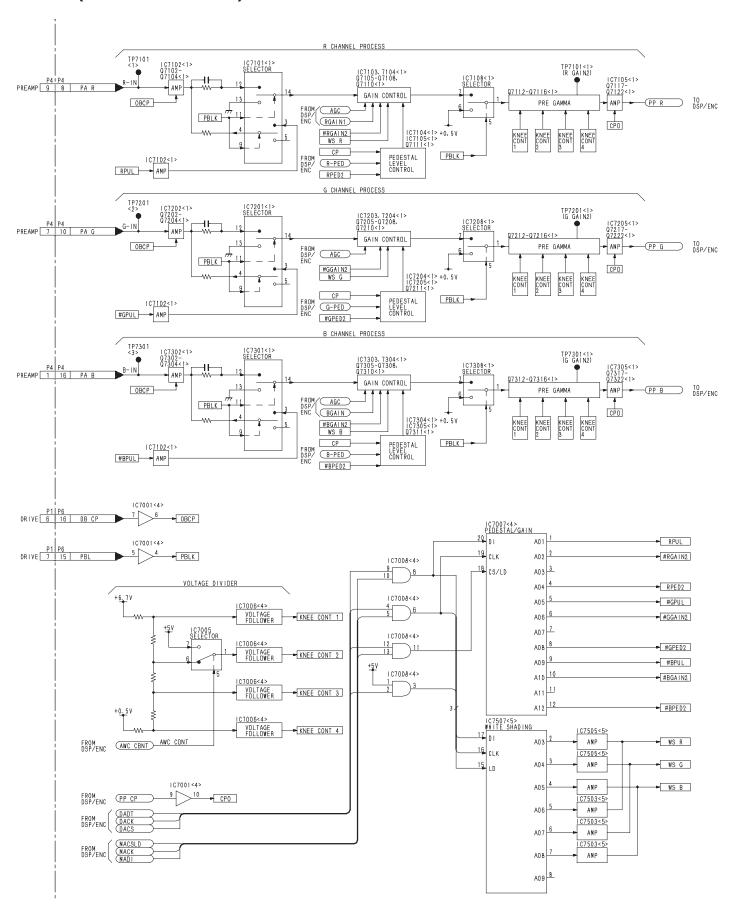
PREAMP/DRIVE BLOCK DIAGRAM



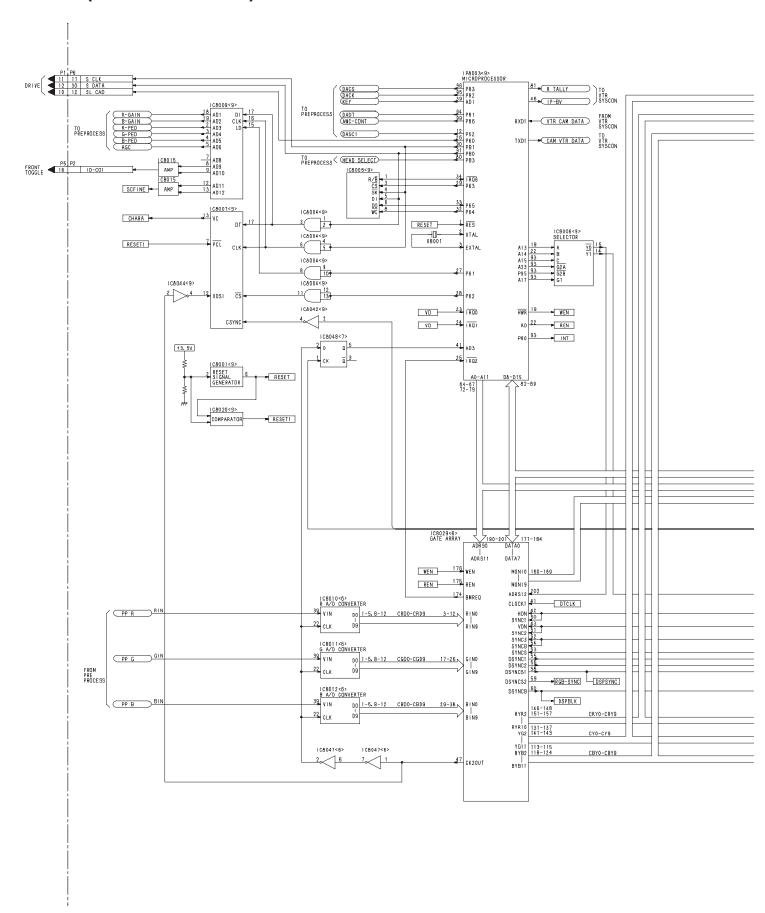
PREAMP/DRIVE BLOCK DIAGRAM



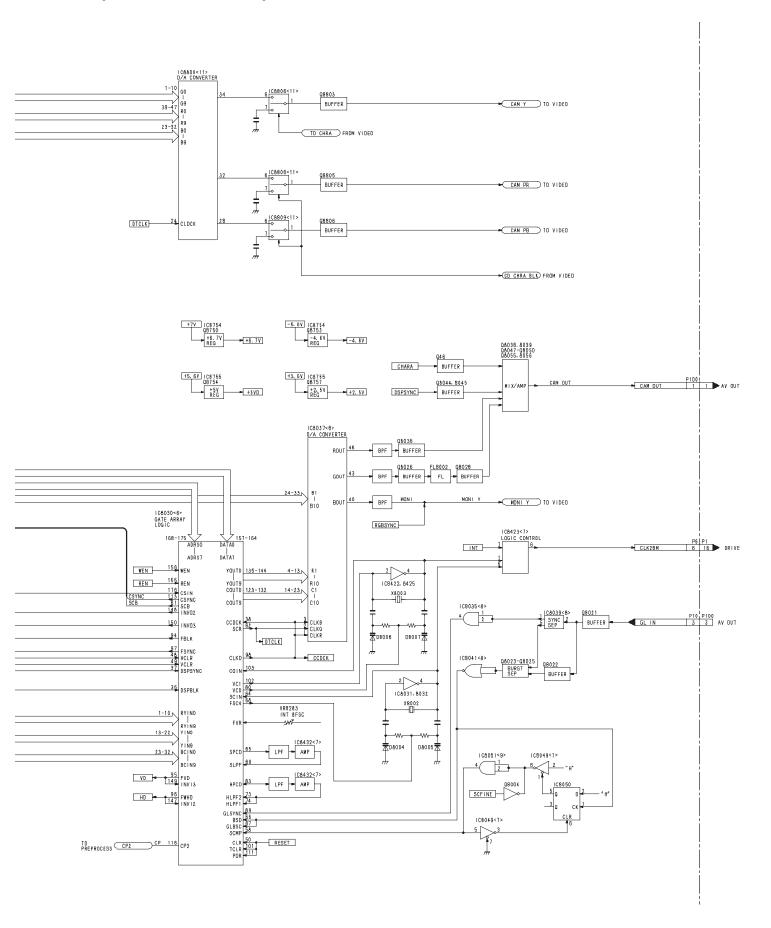
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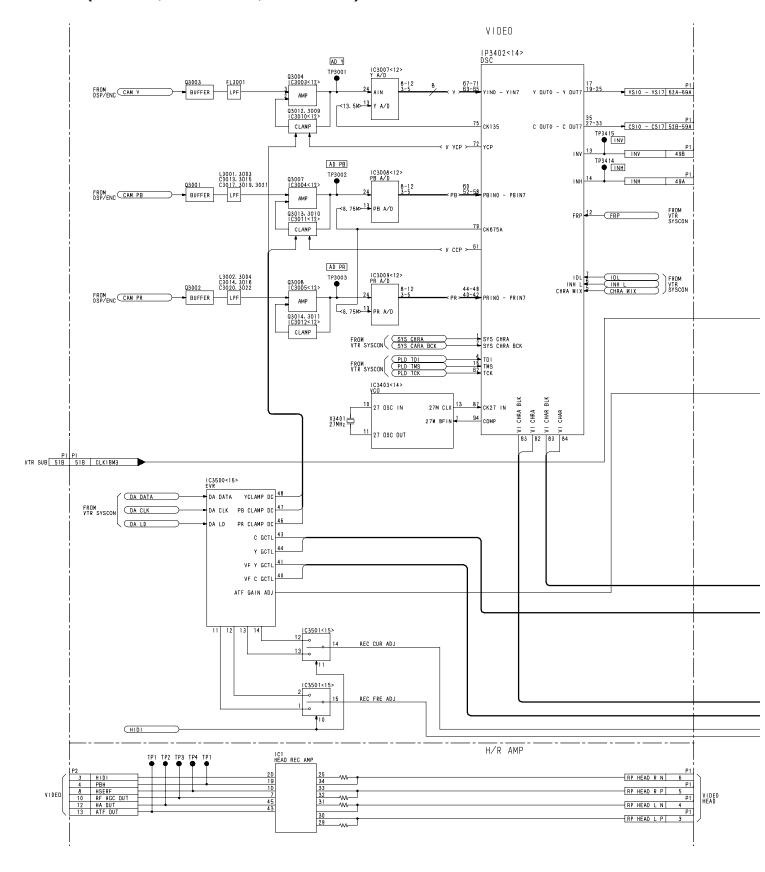
MAIN (DSP/ENCODER) BLOCK DIAGRAM



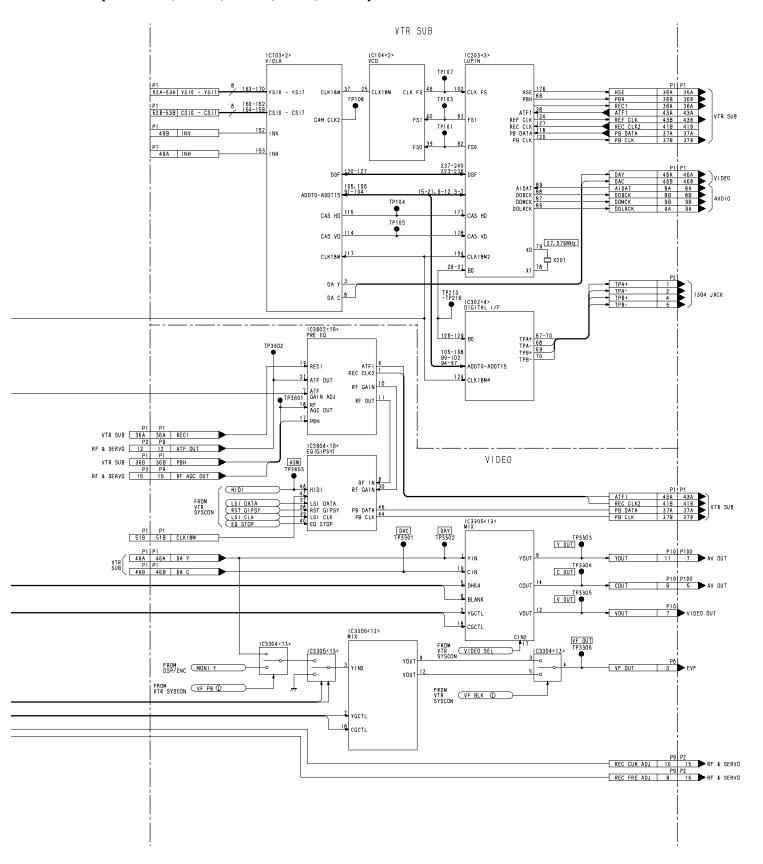
MAIN (DSP/ENCODER) BLOCK DIAGRAM



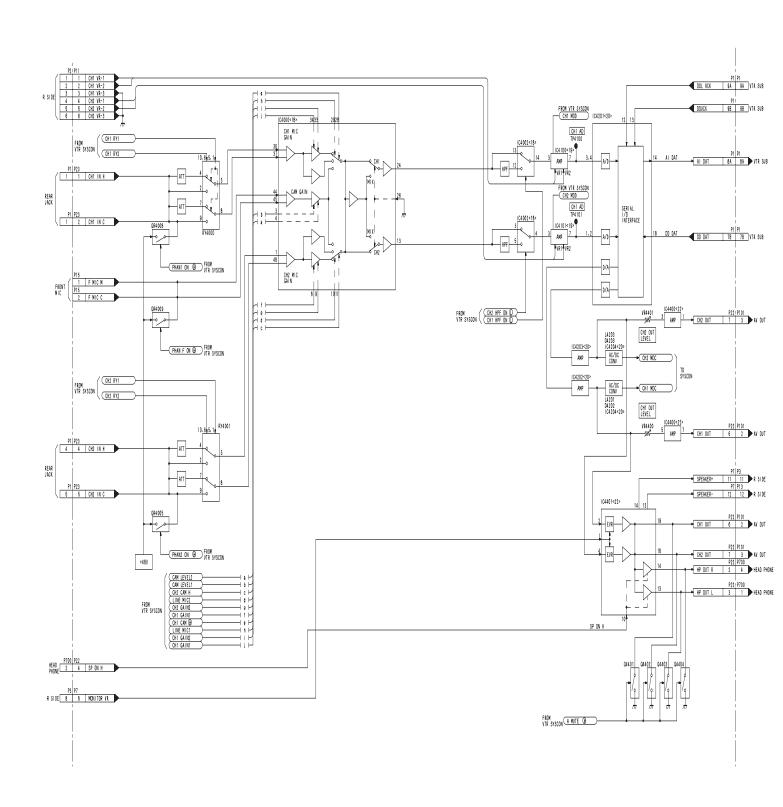
MAIN (VIDEO, VTR SUB, H/R AMP) BLOCK DIAGRAM



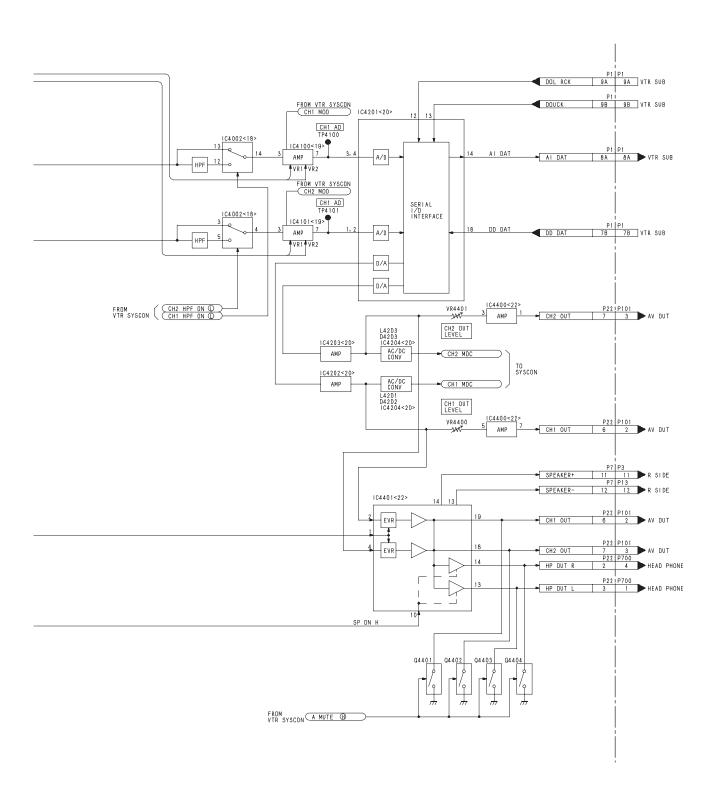
MAIN (VIDEO, VTR, SUB, H/R, AMP) BLOCK DIAGRAM



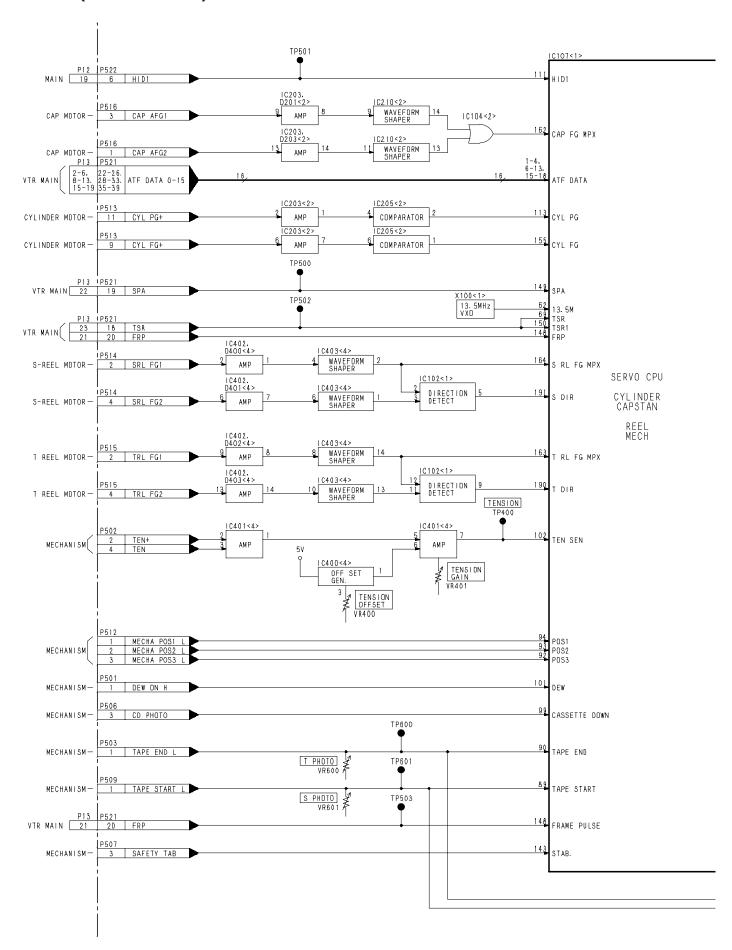
MAIN (AUDIO) BLOCK DIAGRAM



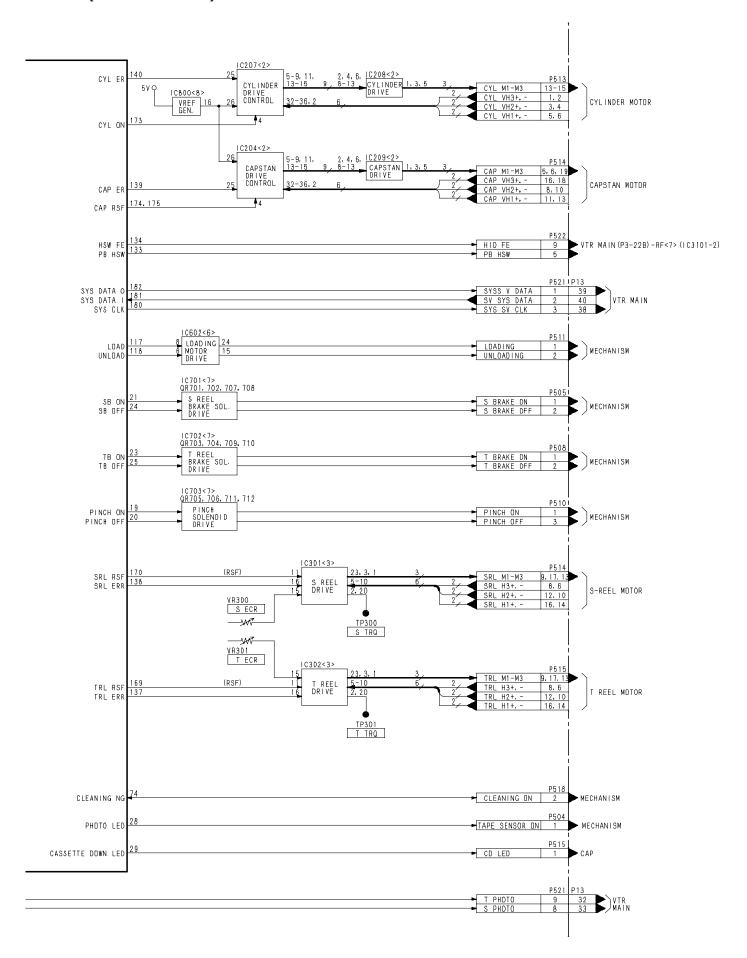
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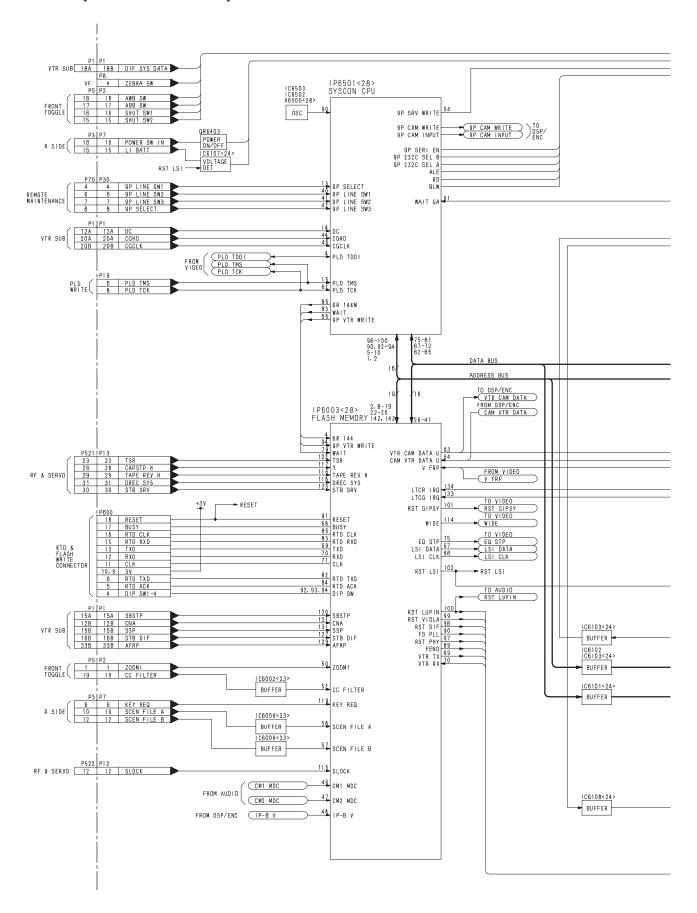
MAIN (RF&SERVO) BLOCK DIAGRAM



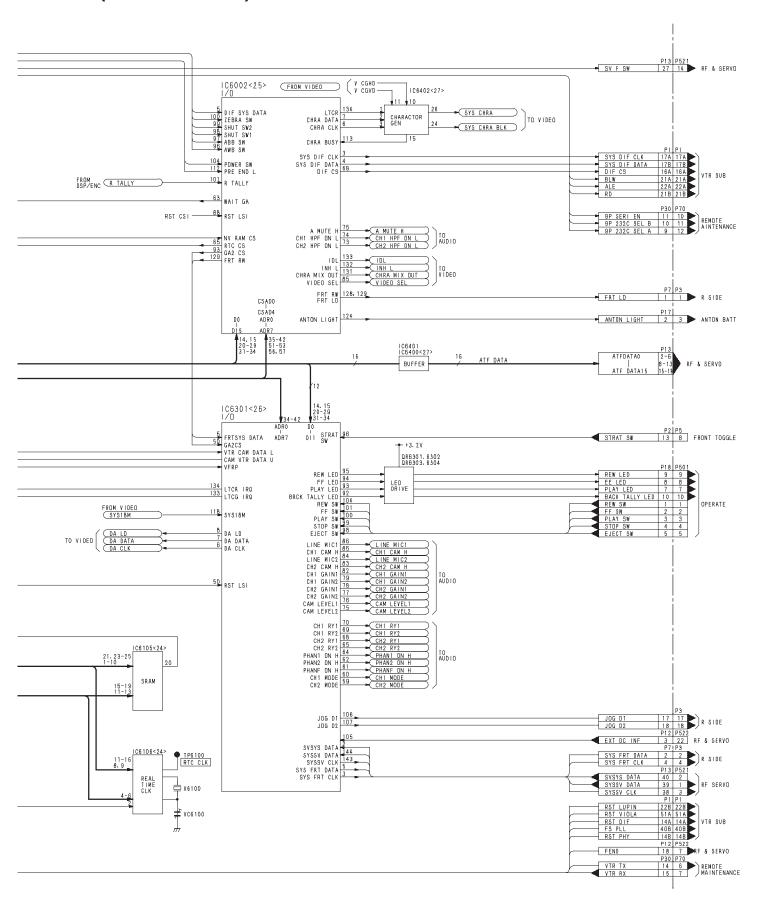
MAIN (RF&SERVO) BLOCK DIAGRAM



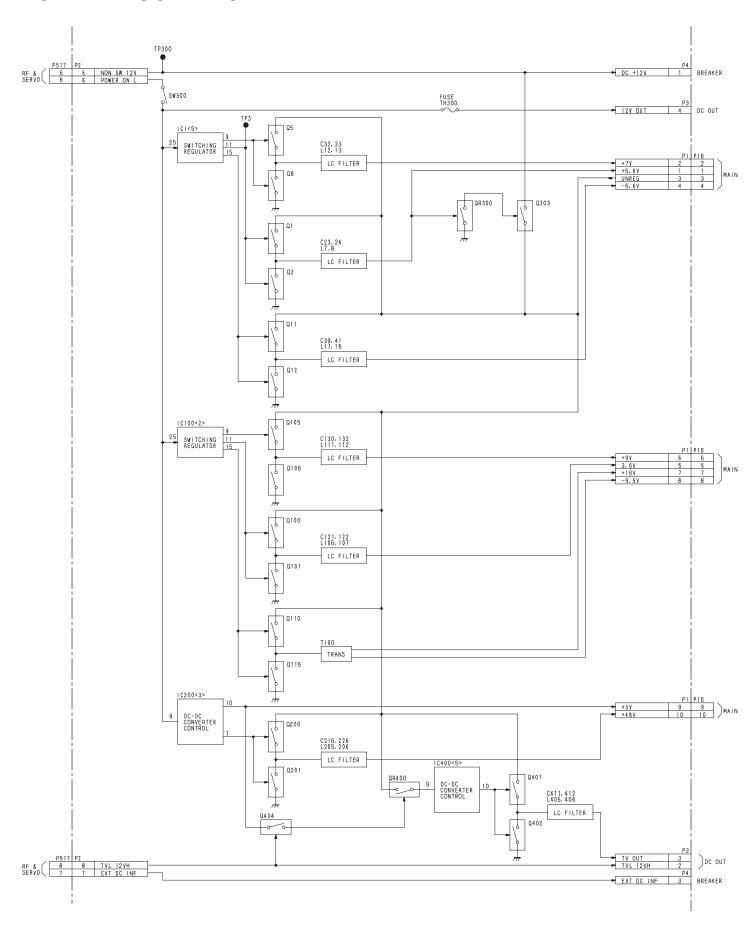
MAIN (VTR SYSCON) BLOCK DIAGRAM



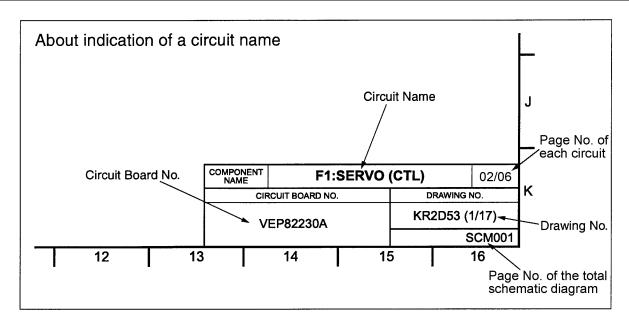
MAIN (VTR SYSCON) BLOCK DIAGRAM



POWER BLOCK DIAGRAM



SCHEMATIC DIAGRAMS



NOTE:

BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST, SECTION8

CAUTION -

THE MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.

PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

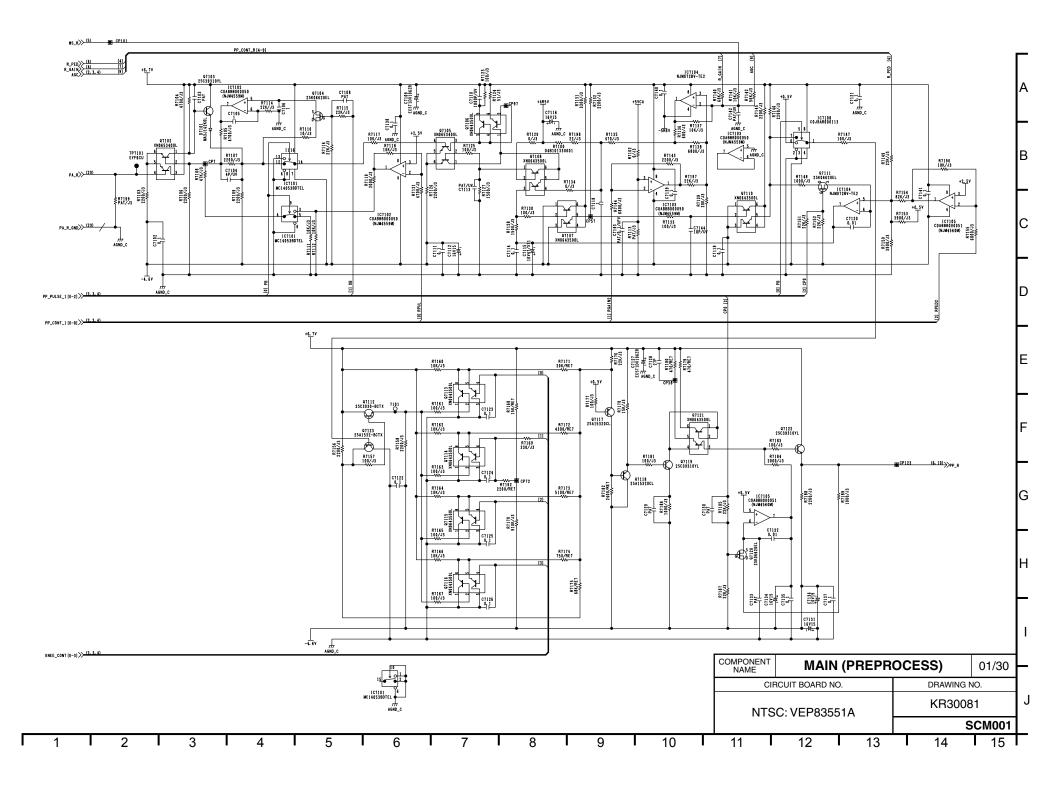
IMPORTANT SAFETY NOTICE:

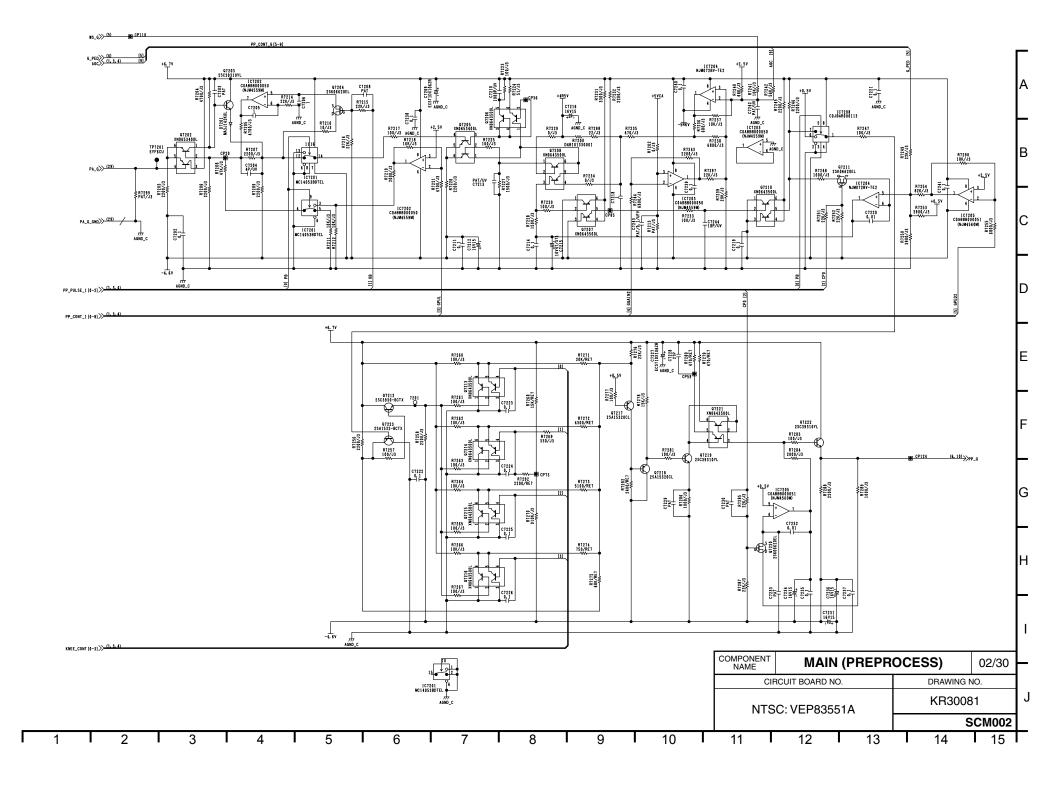
COMPONENTS IDENTIFIED WITH THE MARK Δ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

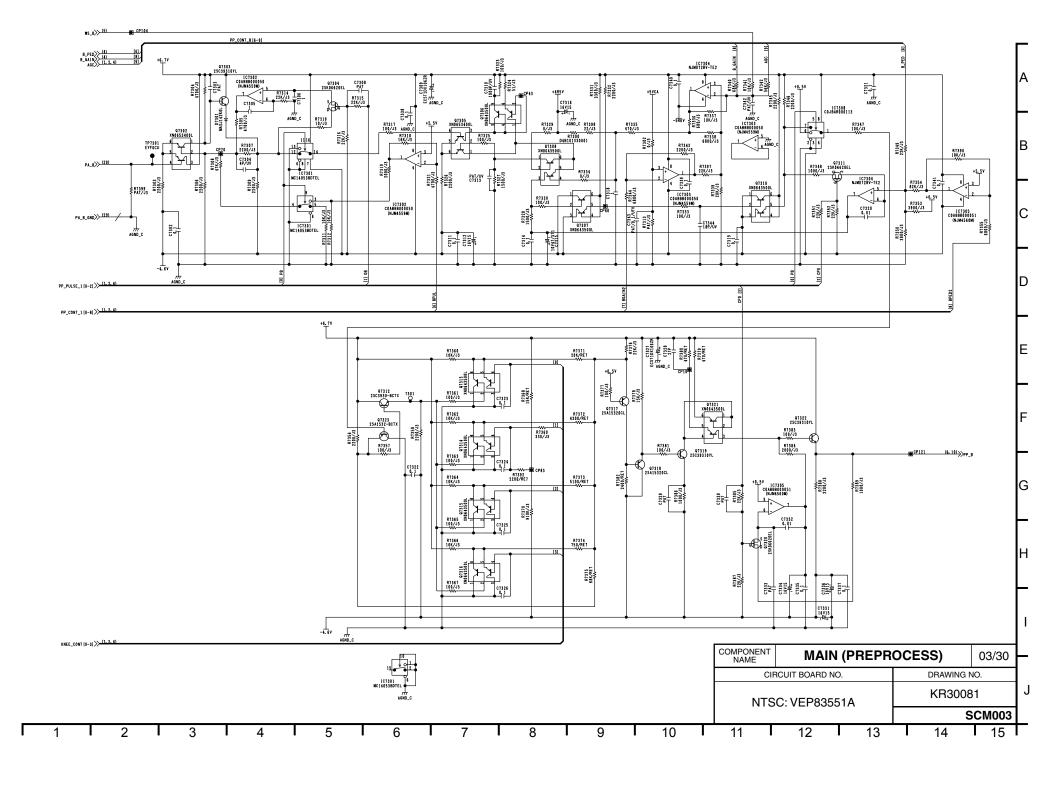
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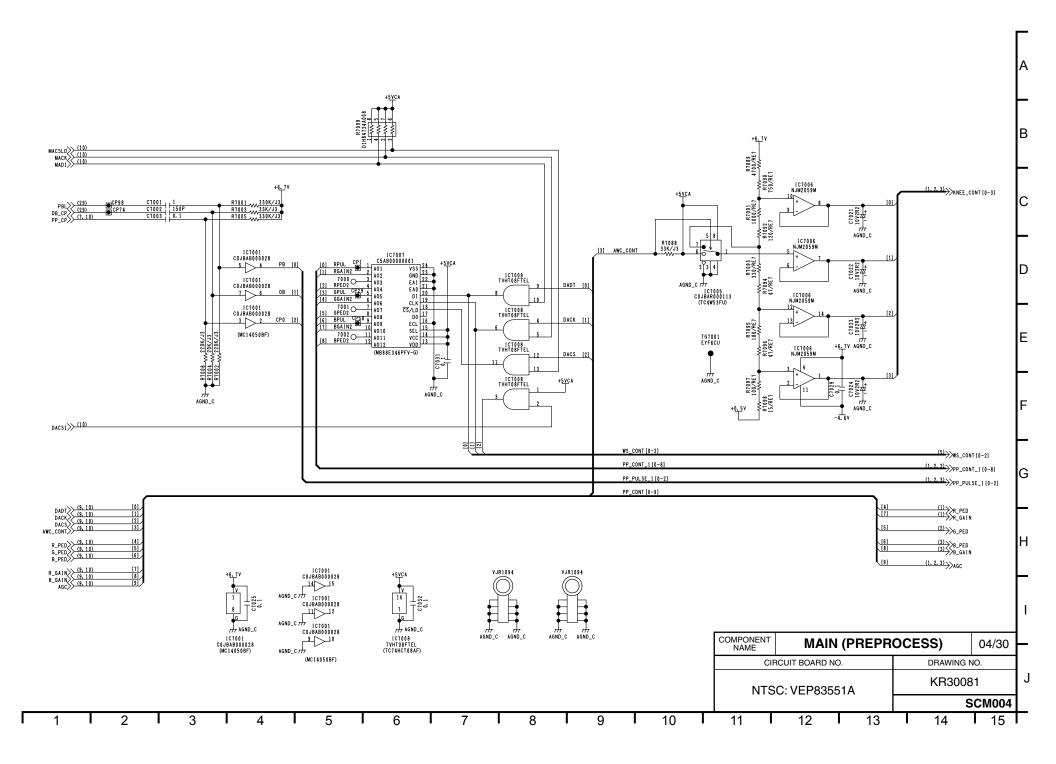
MAIN	
PREPROCESS (1/5)	SCM1
PREPROCESS (2/5)	
PREPROCESS (3/5)	
PREPROCESS (4/5)	
PREPROCESS (5/5)	
DSP ENC (1/6)	
DSP ENC (2/6)	
DSP_ENC (3/6)	
DSP ENC (4/6)	
DSP_ENC (5/6)	
DSP ENC (6/6)	
VIDEO_ADC	
VIDEO OUT	
VIDEO_PLD	
VIDEO EVR	
VIDEO_GIPSY	
VIDEO POWER&BUFF	
AUDIO	
AUDIO AGC	
AUDIO D/A	
AUDIO CUE	
AUDIO OUT	
VTR_SYSCON (1/6)	
VTR_SYSCON (2/6)	
VTR_SYSCON (3/6)	
VTR_SYSCON (4/6)	
VTR_SYSCON (5/6)	
VTR_SYSCON (6/6)	
CONNECTOR1	
CONNECTOR2	
OUNTEDTONE	. OOWIOO
RF&SERVO	
SERVO uCOM	SCM31
CYL/CAP DRIVE	
	3010132
REEL DRIVE	
REEL DRIVEREEL FG/TENSION AMP	SCM33
	SCM33 SCM34
REEL FG/TENSION AMPCONNECTER	SCM33 SCM34 SCM35
REEL FG/TENSION AMP	SCM33 SCM34 SCM35
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE	SCM33 SCM34 SCM35 SCM36
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE	SCM33 SCM34 SCM35 SCM36 SCM37
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM39 SCM40
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER CTL AMP	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM39 SCM40
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER CTL AMP H/R AMP VTR_SUB	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM39 SCM40
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER CTL AMP H/R AMP VTR_SUB CONNECTOR	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM39 SCM40 SCM41
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER CTL AMP H/R AMP VTR_SUB	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM39 SCM40 SCM41
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER CTL AMP H/R AMP VTR_SUB CONNECTOR VIOLA LUPIN	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM39 SCM40 SCM41
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER CTL AMP H/R AMP VTR_SUB CONNECTOR VIOLA LUPIN PINE++	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM40 SCM41
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER CTL AMP H/R AMP VTR_SUB CONNECTOR VIOLA LUPIN	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM40 SCM41
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER CTL AMP H/R AMP VTR_SUB CONNECTOR VIOLA LUPIN PINE++ RF PLL	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM40 SCM41
REEL FG/TENSION AMP	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM40 SCM41 SCM41 SCM42 SCM44 SCM44 SCM44 SCM44 SCM46
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER CTL AMP H/R AMP VTR_SUB CONNECTOR VIOLA LUPIN PINE++ RF PLL	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM40 SCM41 SCM41 SCM42 SCM44 SCM44 SCM44 SCM44 SCM46
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER CTL AMP H/R AMP VTR_SUB CONNECTOR VIOLA LUPIN PINE++ RF PLL PREAMP PREAMP	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM40 SCM41 SCM41 SCM42 SCM44 SCM44 SCM44 SCM44 SCM46
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER CTL AMP H/R AMP VTR_SUB CONNECTOR VIOLA LUPIN PINE++ RF PLL PREAMP PREAMP POWER	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM40 SCM41 SCM41 SCM42 SCM43 SCM44 SCM45 SCM46
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER CTL AMP H/R AMP VTR_SUB CONNECTOR VIOLA LUPIN PINE++ RF PLL PREAMP PREAMP POWER POWER POWER POWER (1/5)	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM40 SCM41 SCM41 SCM44 SCM44 SCM45 SCM47
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER CTL AMP H/R AMP VTR_SUB CONNECTOR VIOLA LUPIN PINE++ RF PLL PREAMP PREAMP PREAMP POWER POWER (1/5) POWER (2/5)	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM40 SCM41
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER CTL AMP H/R AMP VTR_SUB CONNECTOR VIOLA LUPIN PINE++ RF PLL PREAMP PREAMP PREAMP POWER POWER POWER (1/5) POWER (3/5)	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM40 SCM41
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REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER CTL AMP H/R AMP WTR_SUB CONNECTOR VIOLA LUPIN PINE++ RF PLL PREAMP PREAMP PREAMP POWER POWER POWER (1/5) POWER (3/5) POWER (4/5) POWER (5/5)	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM40 SCM41 SCM41 SCM42 SCM43 SCM44 SCM44 SCM45 SCM46
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER CTL AMP H/R AMP WTR_SUB CONNECTOR VIOLA LUPIN PINE++ RF PLL PREAMP PREAMP PREAMP POWER POWER POWER (1/5) POWER (3/5) POWER (4/5) POWER (5/5)	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM40 SCM41 SCM41 SCM42 SCM43 SCM44 SCM44 SCM45 SCM46
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER CTL AMP H/R AMP WTR_SUB CONNECTOR VIOLA LUPIN PINE++ RF PLL PREAMP PREAMP PREAMP POWER POWER POWER (1/5) POWER (3/5) POWER (4/5) POWER (5/5) REAR JACK	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM40 SCM41 SCM41 SCM42 SCM43 SCM44 SCM45 SCM46 SCM47
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER CTL AMP H/R AMP VTR_SUB CONNECTOR VIOLA LUPIN PINE++ RF PLL PREAMP PREAMP PREAMP POWER POWER (1/5) POWER (2/5) POWER (3/5) POWER (4/5) POWER (5/5) REAR JACK REAR JACK	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM40 SCM41 SCM41 SCM42 SCM43 SCM44 SCM45 SCM46 SCM47
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER CTL AMP H/R AMP VTR_SUB CONNECTOR VIOLA LUPIN PINE++ RF PLL PREAMP PREAMP PREAMP POWER POWER POWER (1/5) POWER (3/5) POWER (4/5) POWER (5/5) REAR JACK REAR JACK AV_OUT	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM40 SCM41 SCM41 SCM42 SCM43 SCM44 SCM44 SCM45 SCM46 SCM47
REEL FG/TENSION AMP CONNECTER MECA SW/LOADING DRIVE SOL DRIVE SW REG SOL POWER CTL AMP H/R AMP VTR_SUB CONNECTOR VIOLA LUPIN PINE++ RF PLL PREAMP PREAMP PREAMP POWER POWER (1/5) POWER (2/5) POWER (3/5) POWER (4/5) POWER (5/5) REAR JACK REAR JACK	SCM33 SCM34 SCM35 SCM36 SCM37 SCM38 SCM40 SCM41 SCM41 SCM42 SCM43 SCM44 SCM44 SCM45 SCM46 SCM47

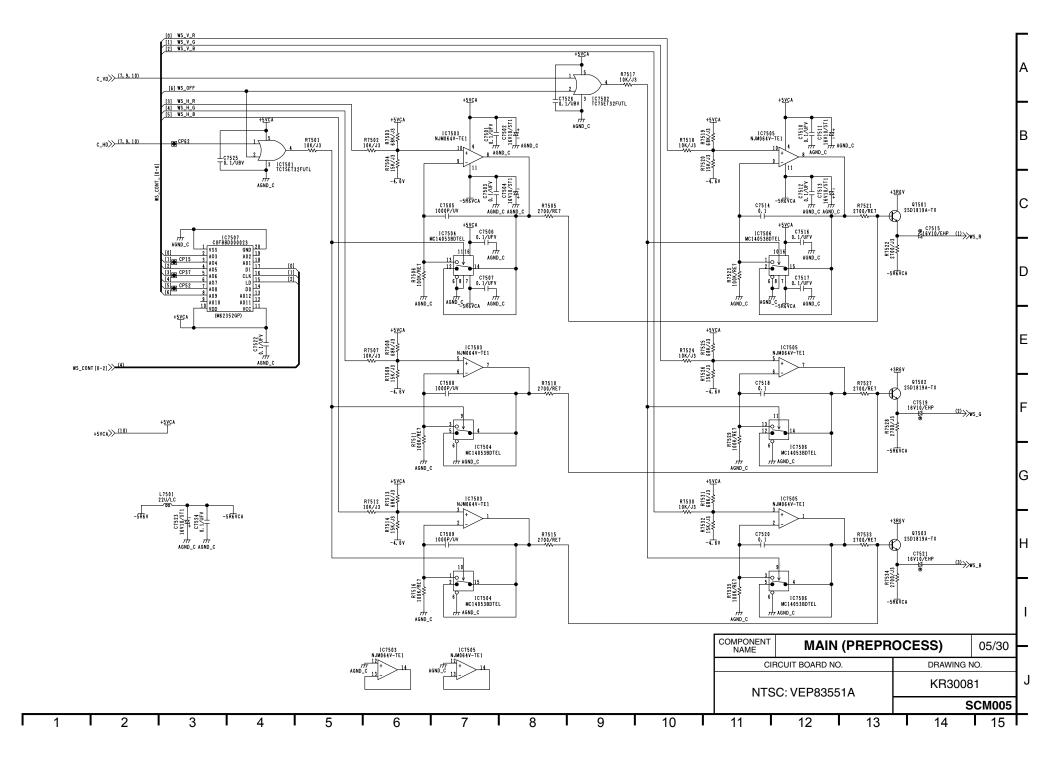
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R_SIDE	SCM55
SCENE_FILE SCENE_FILE	SCM56
AUTO_IRIS	SCM57
LED	SCM57
TOGGLE	SCM58
FRONT TOGGLE	SCM59
REMOTE MAINTENANCE	SCM60
MENU_JOG	SCM61
POWER_SW	
HEAD PHONE HEAD PHONE	
FRONT_MIC	
DRIVE	

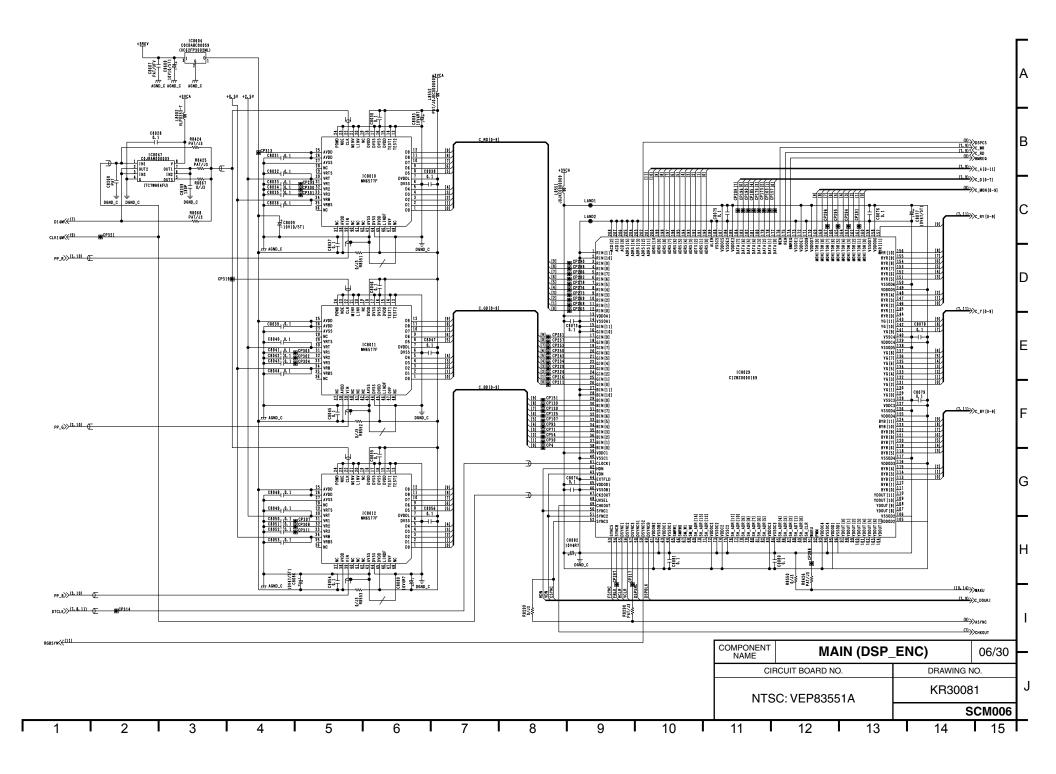


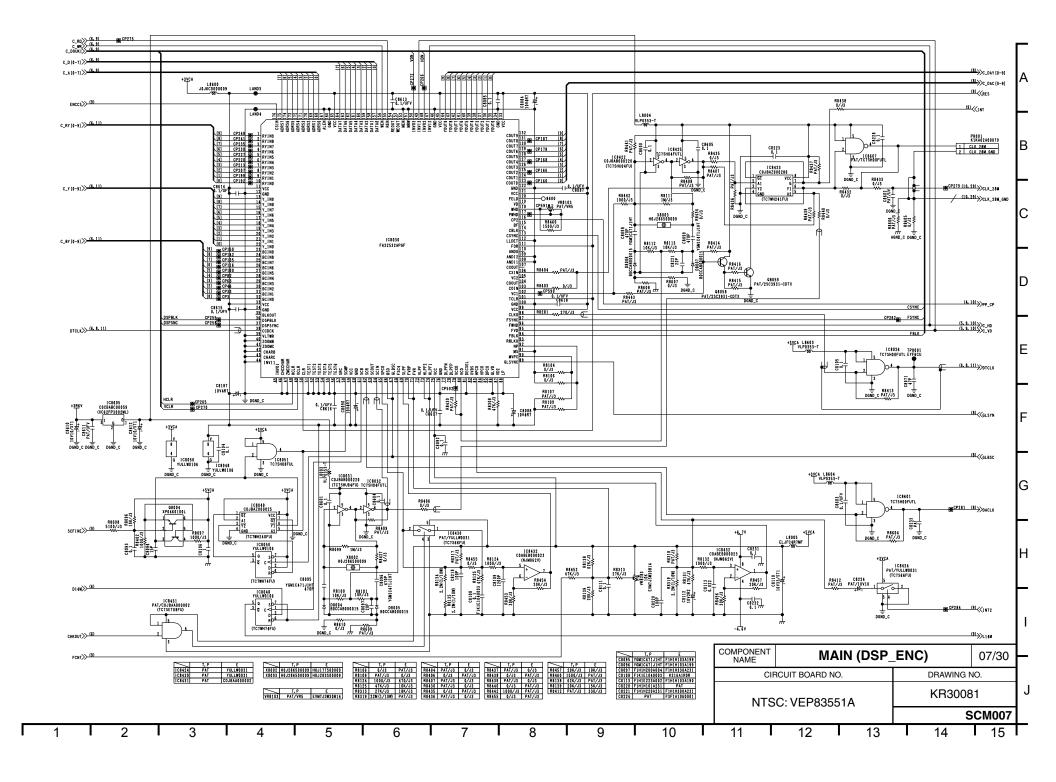


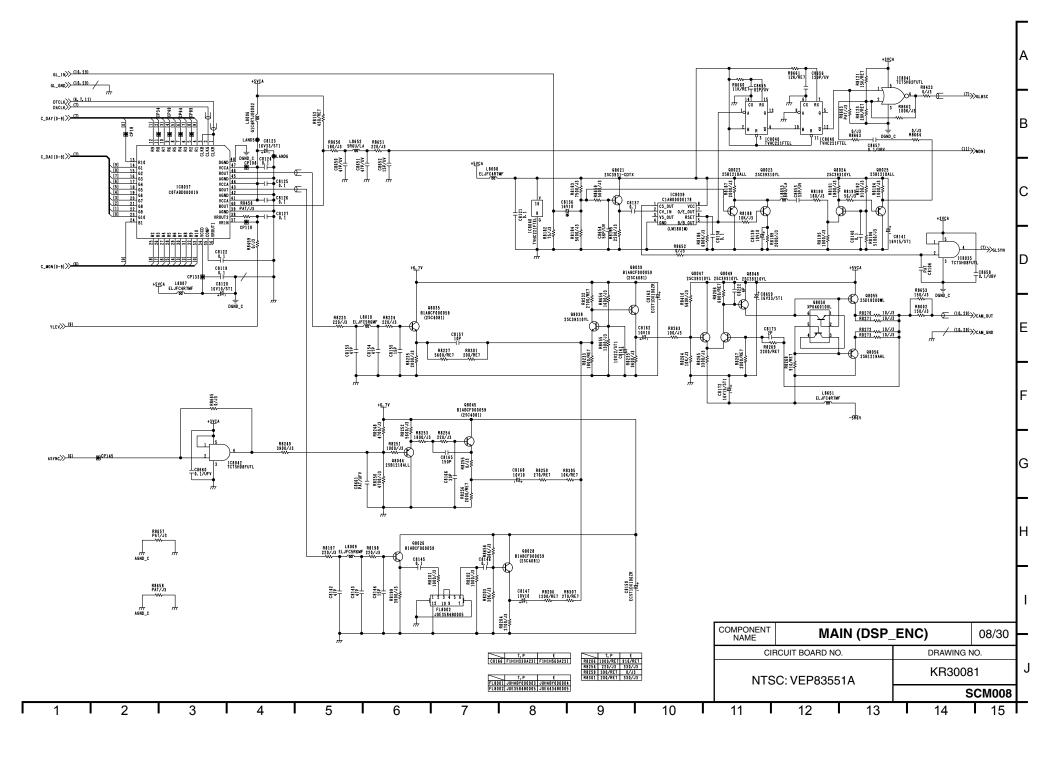


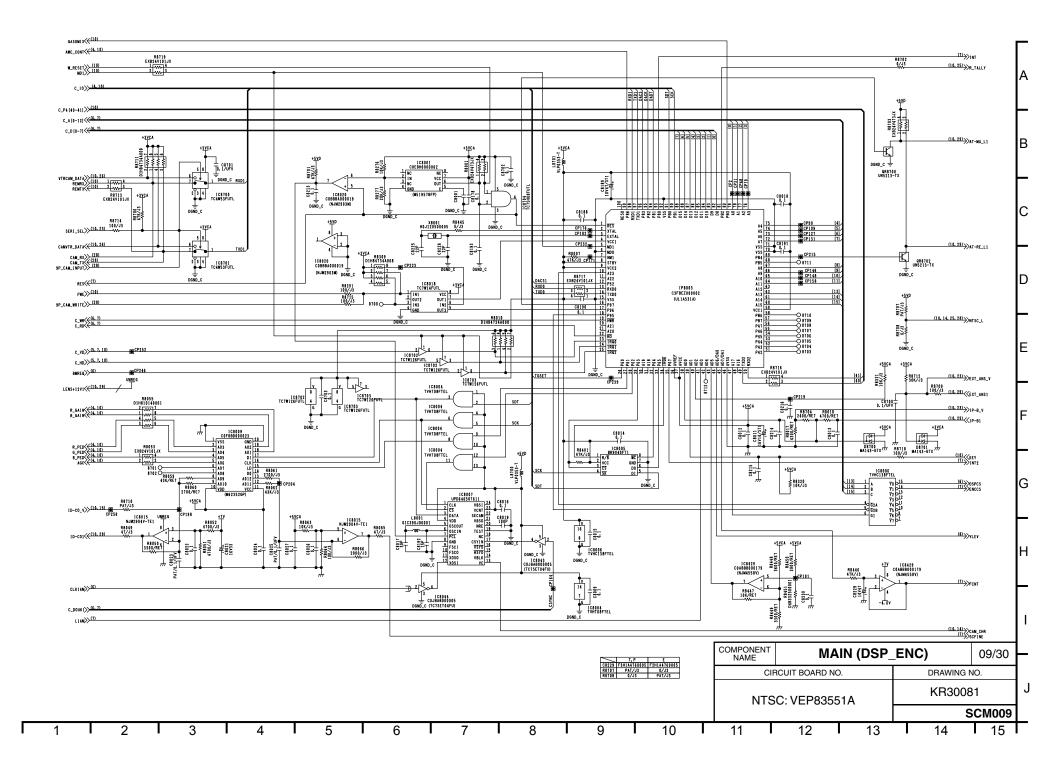


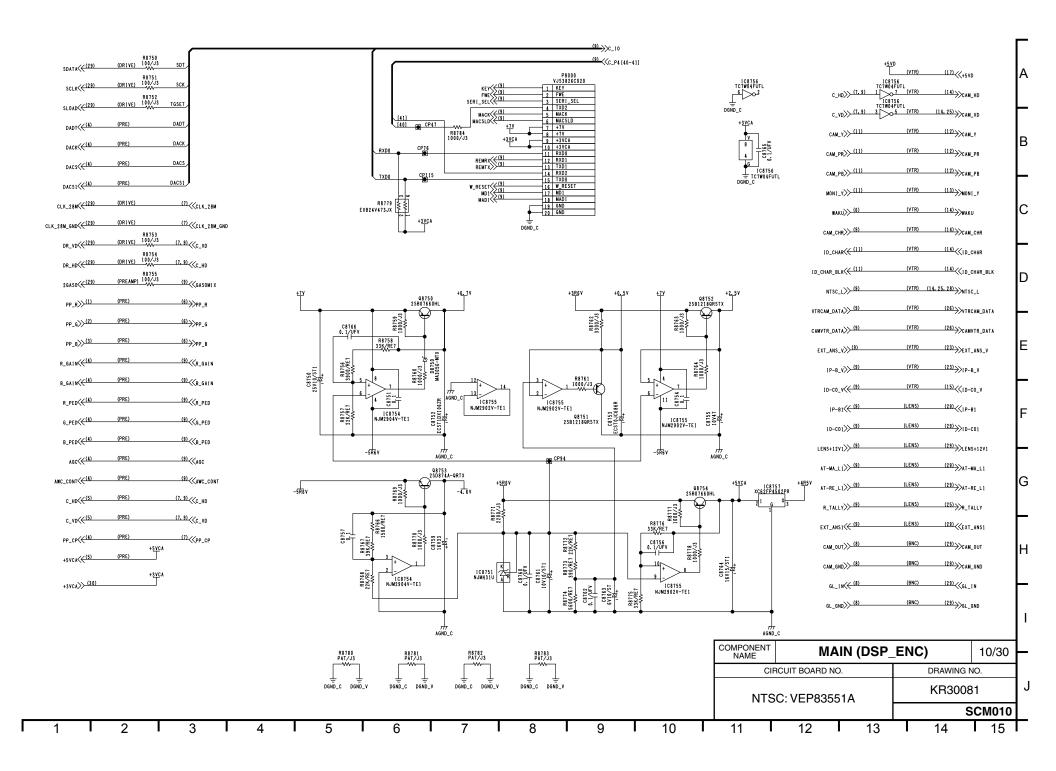


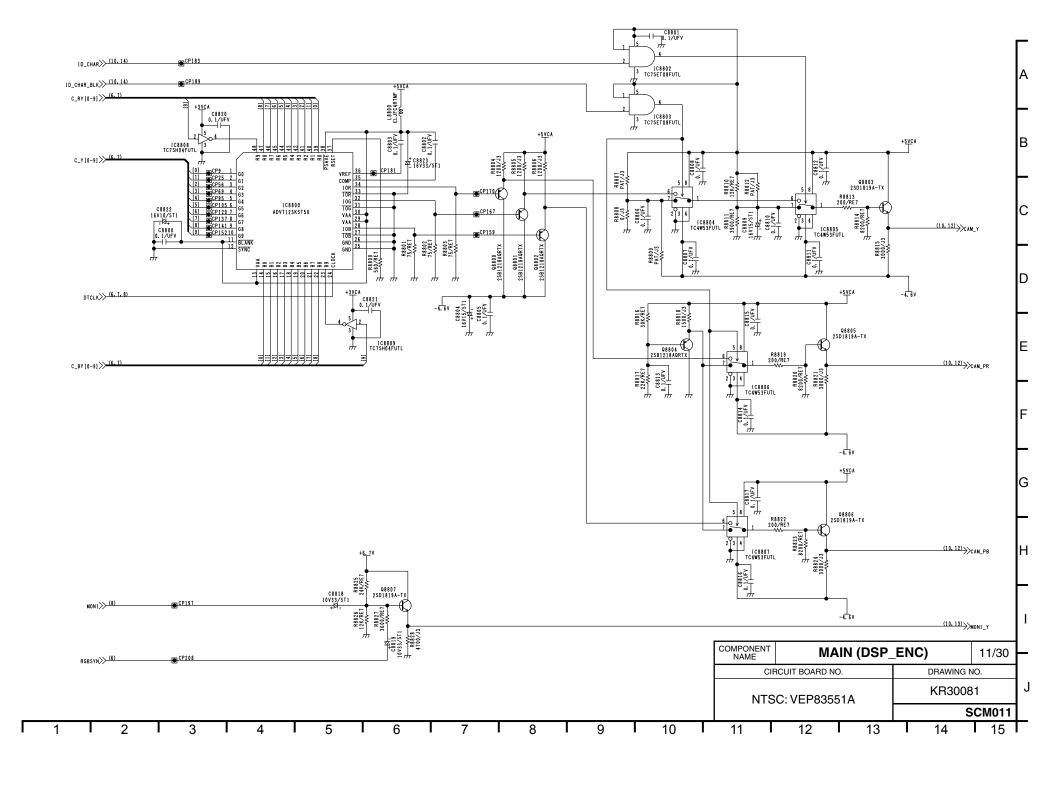


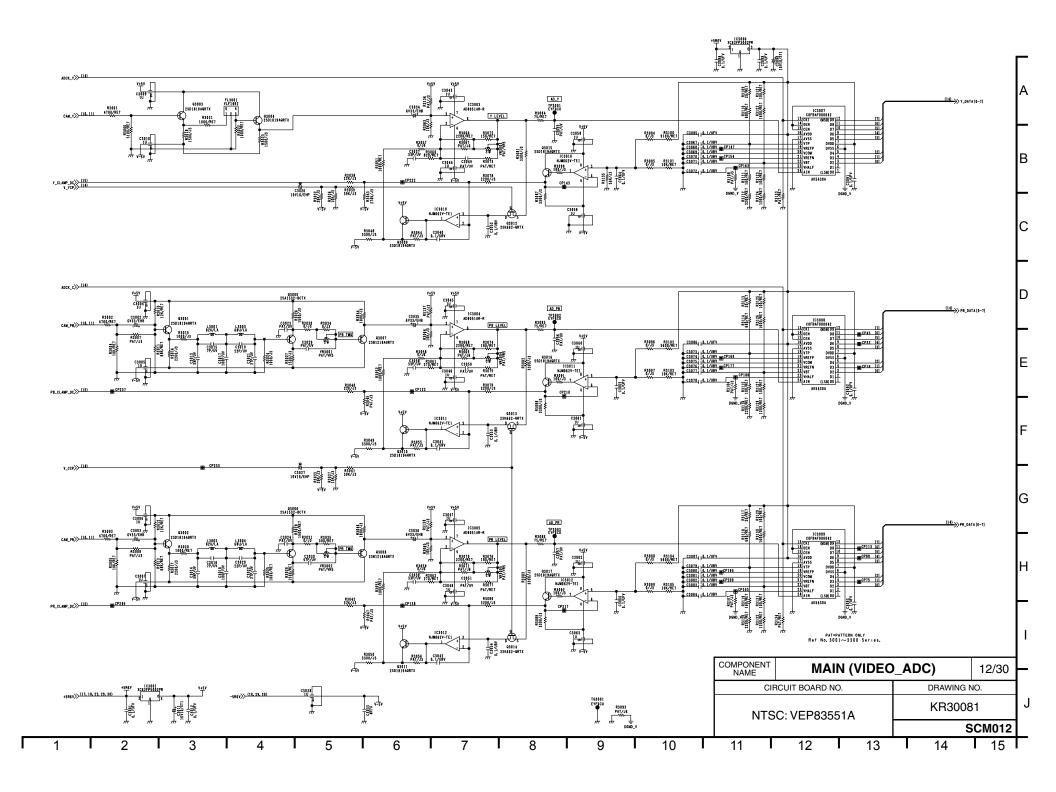


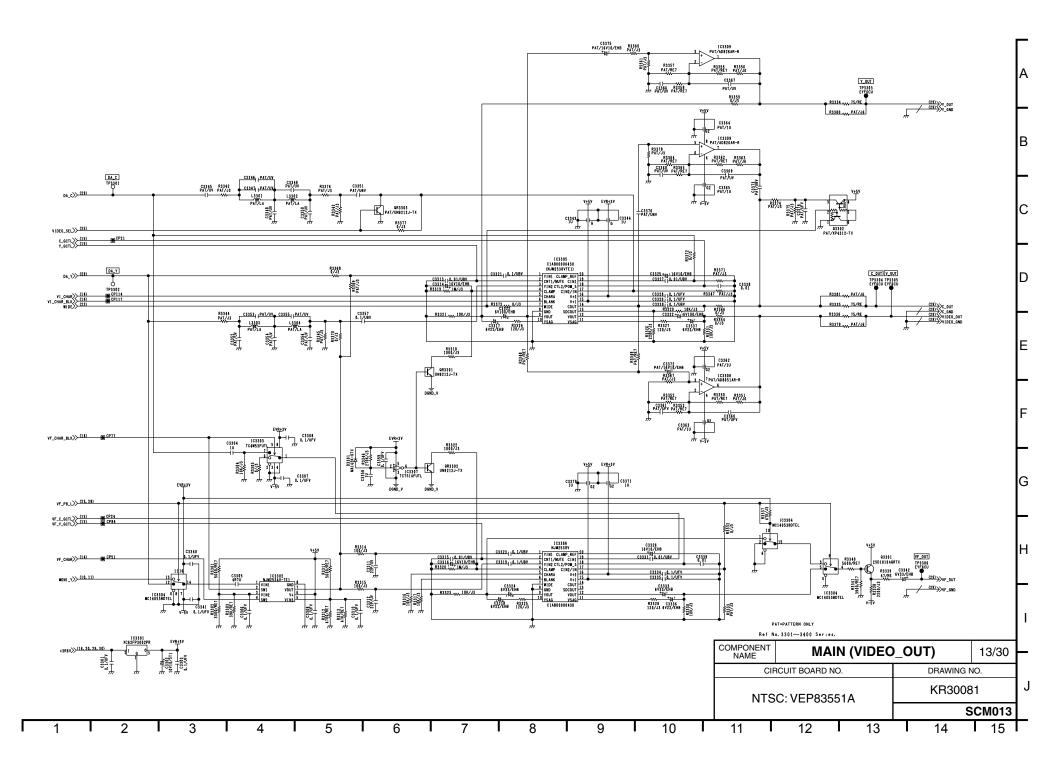


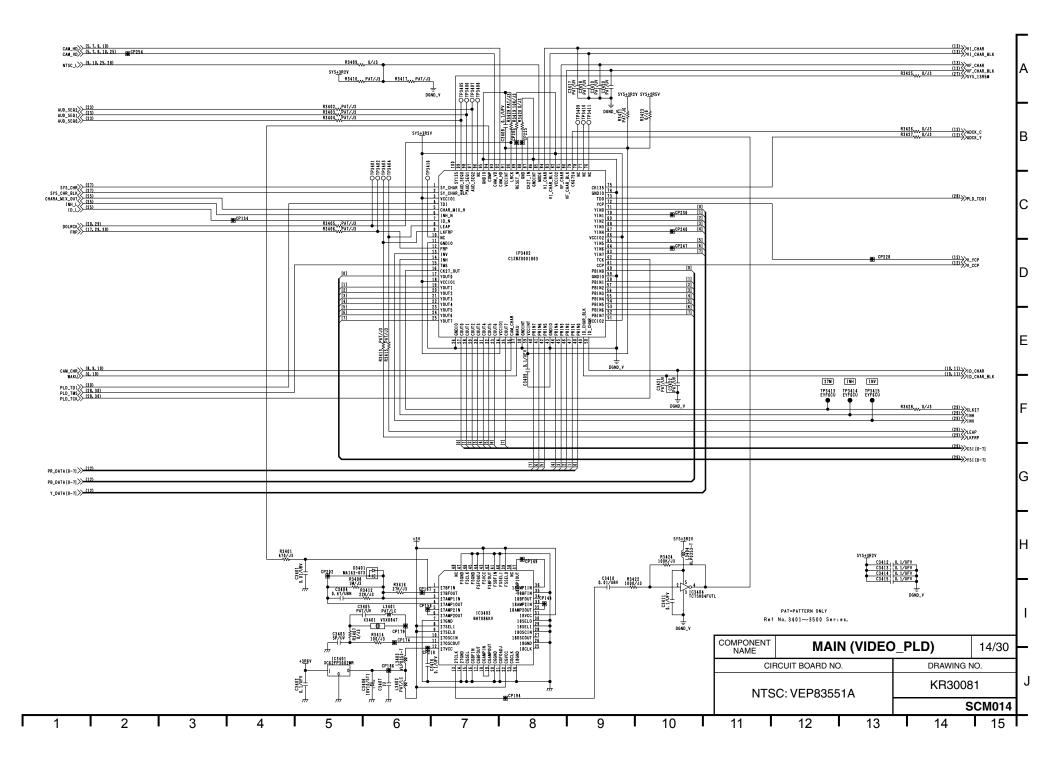


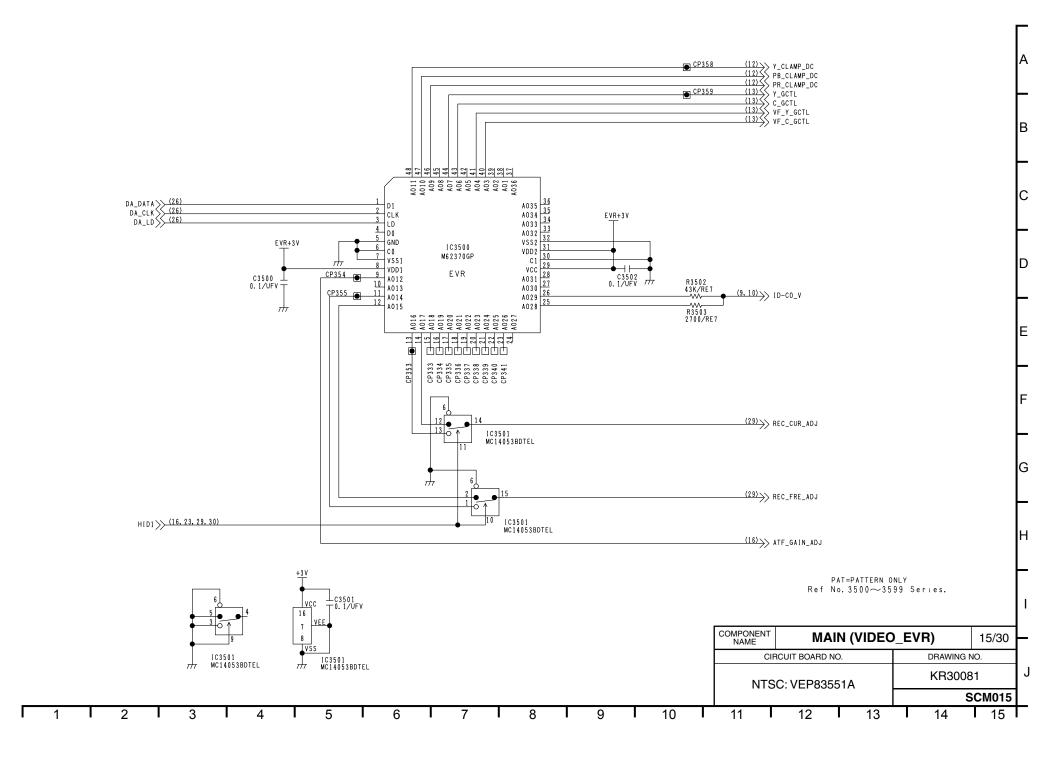


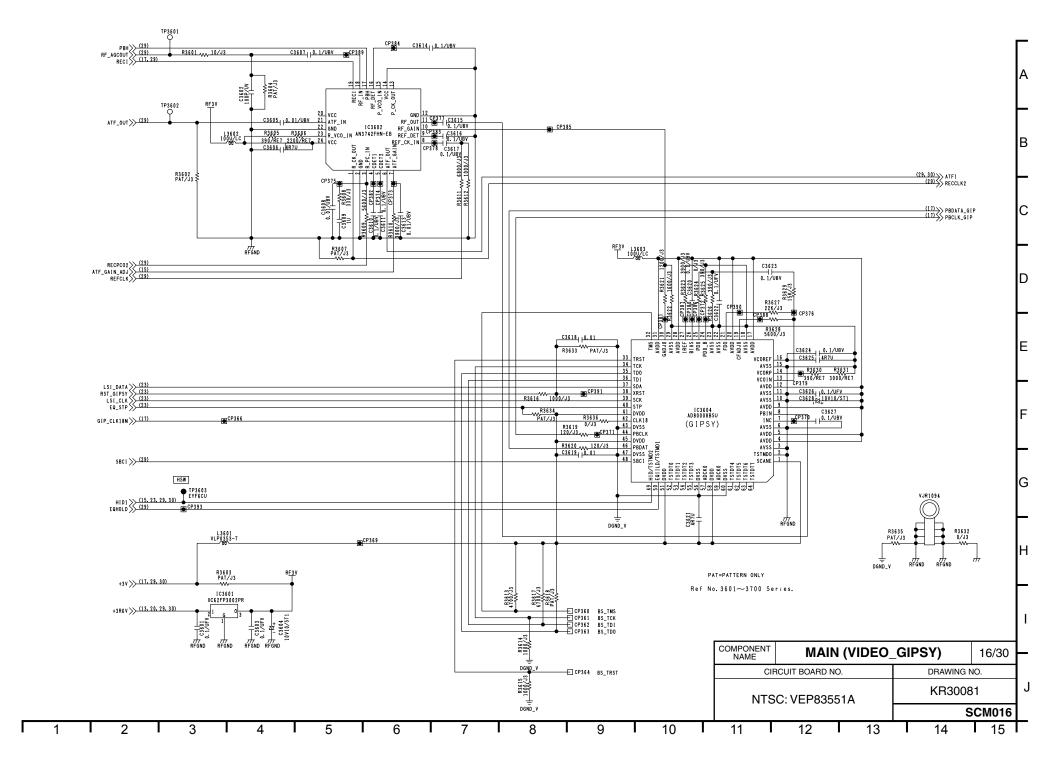


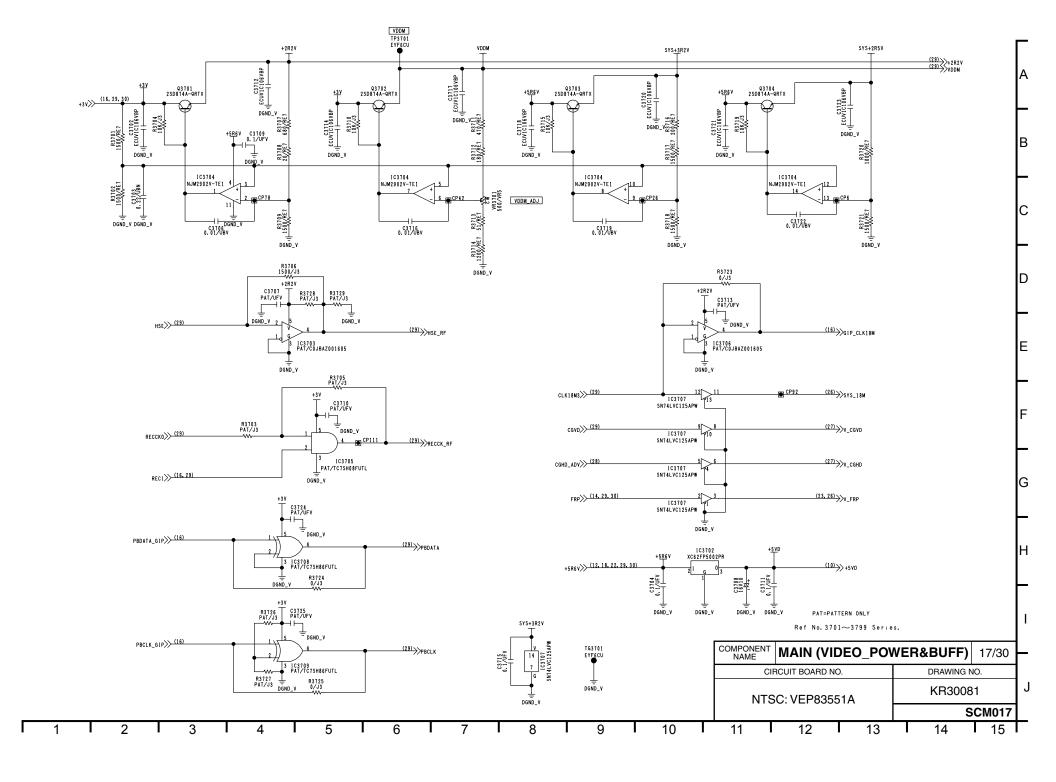


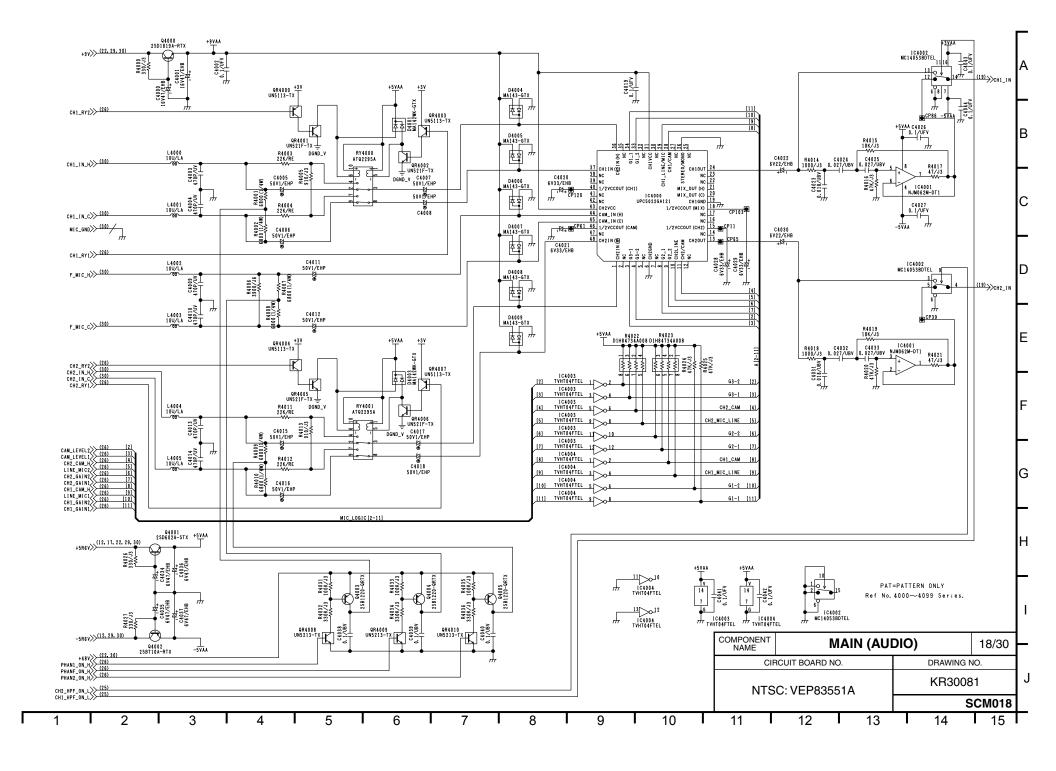


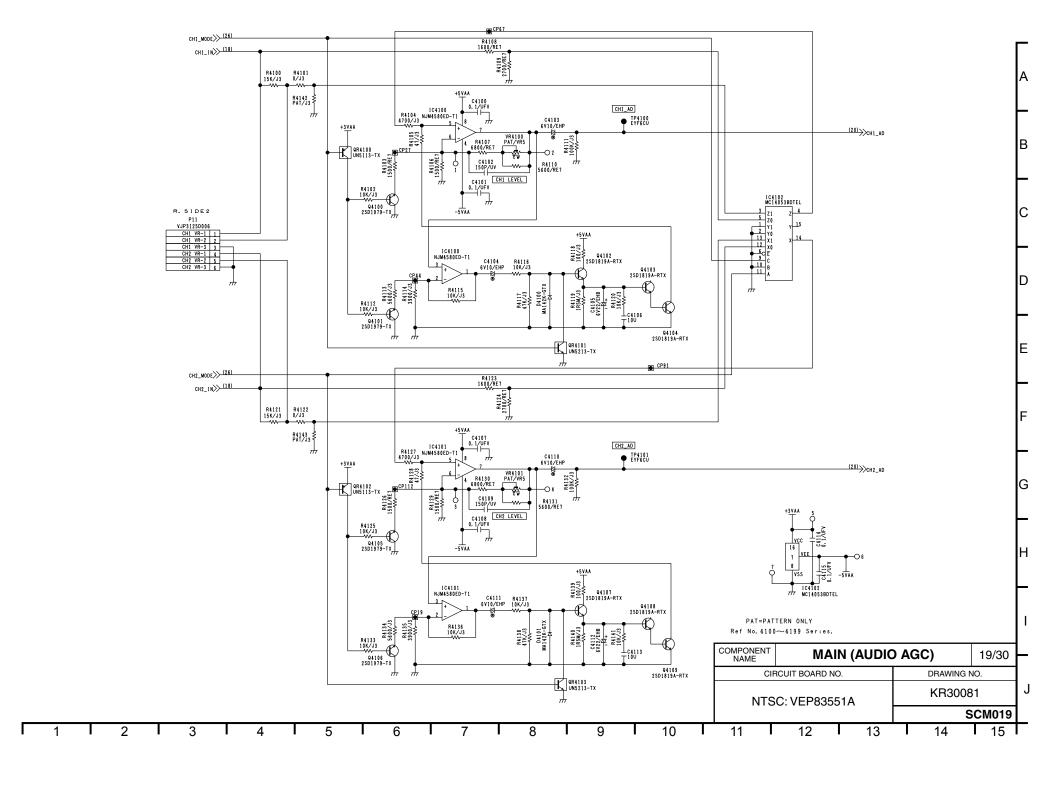


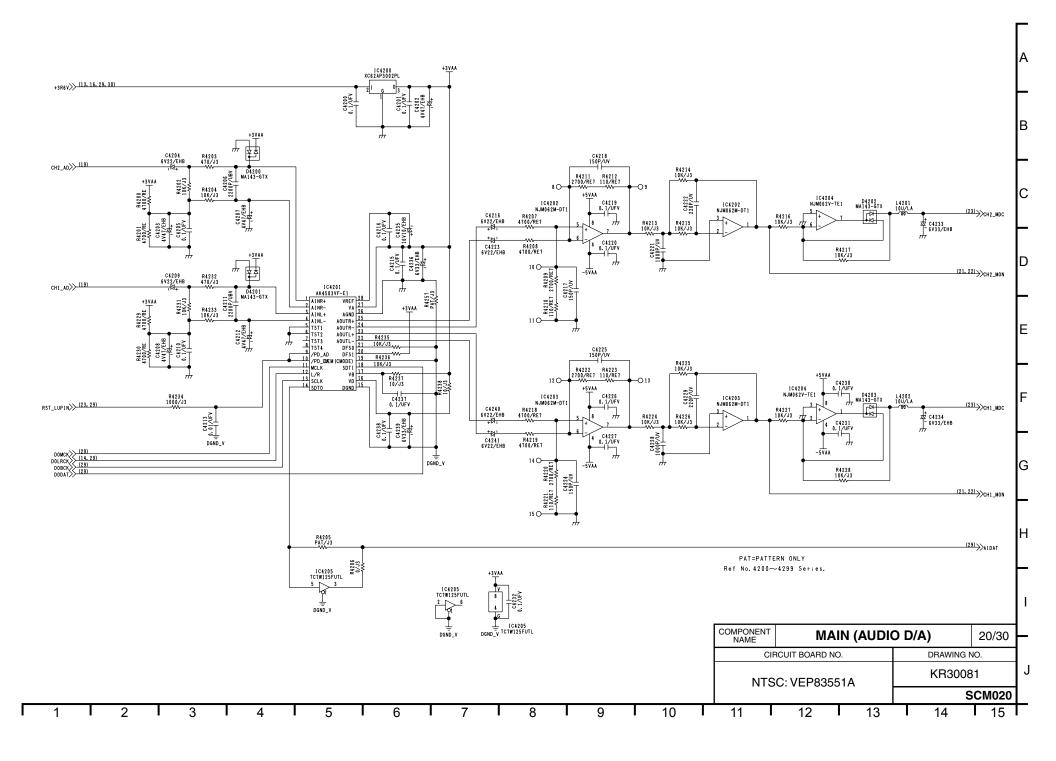


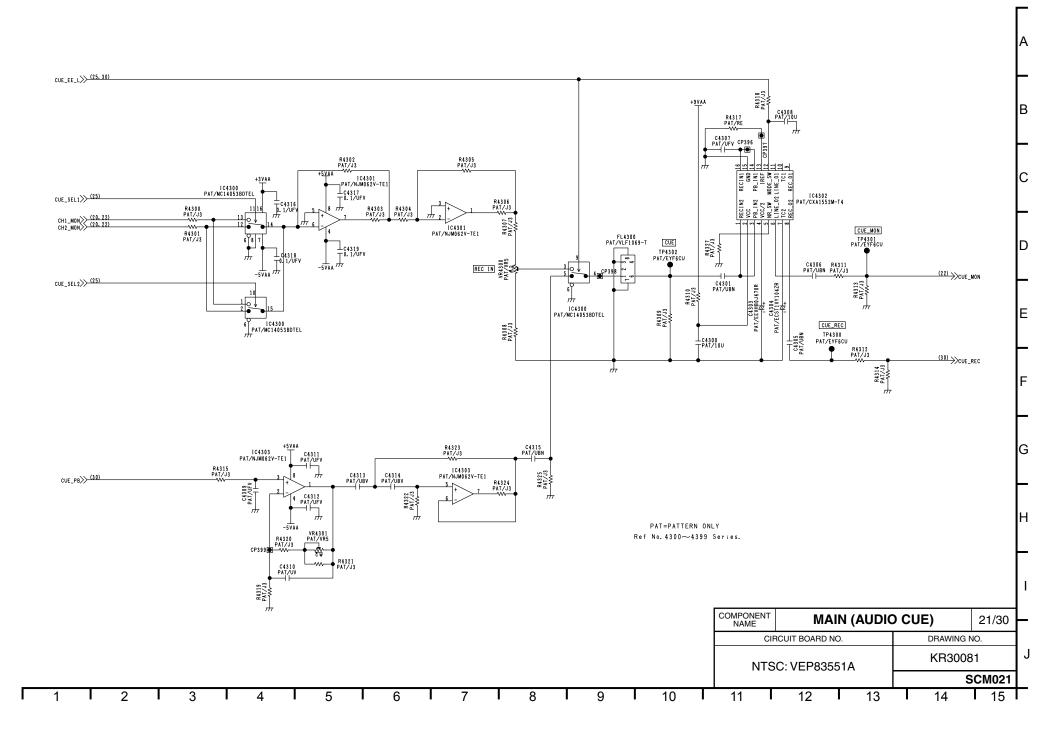


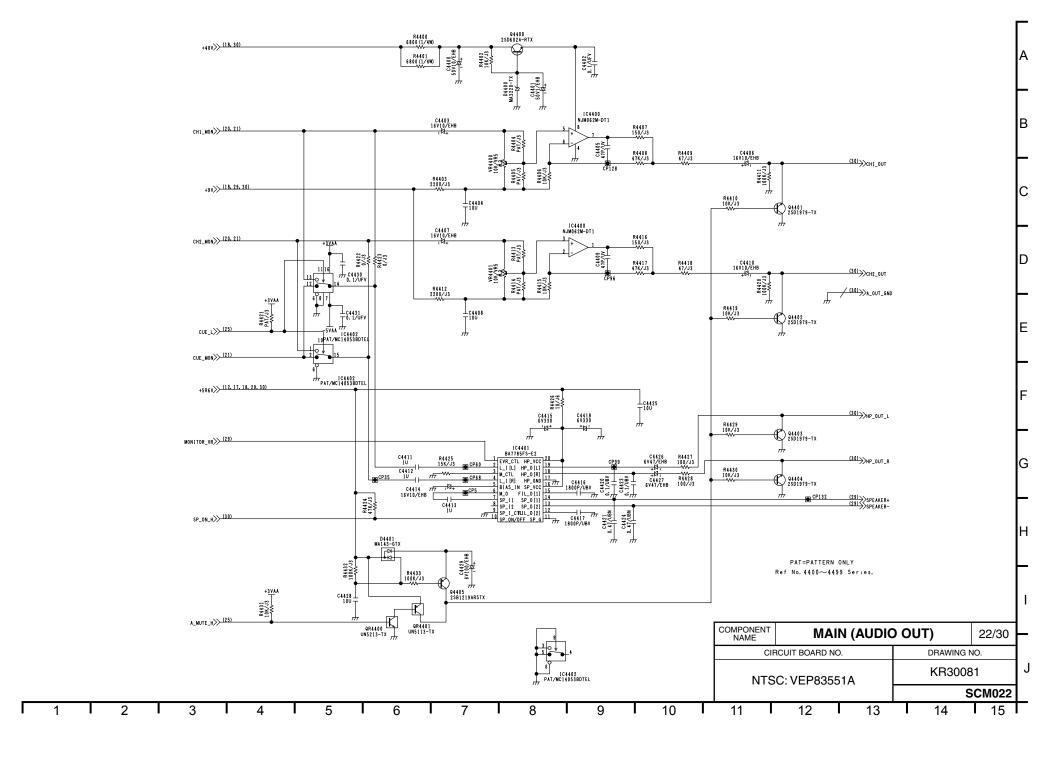


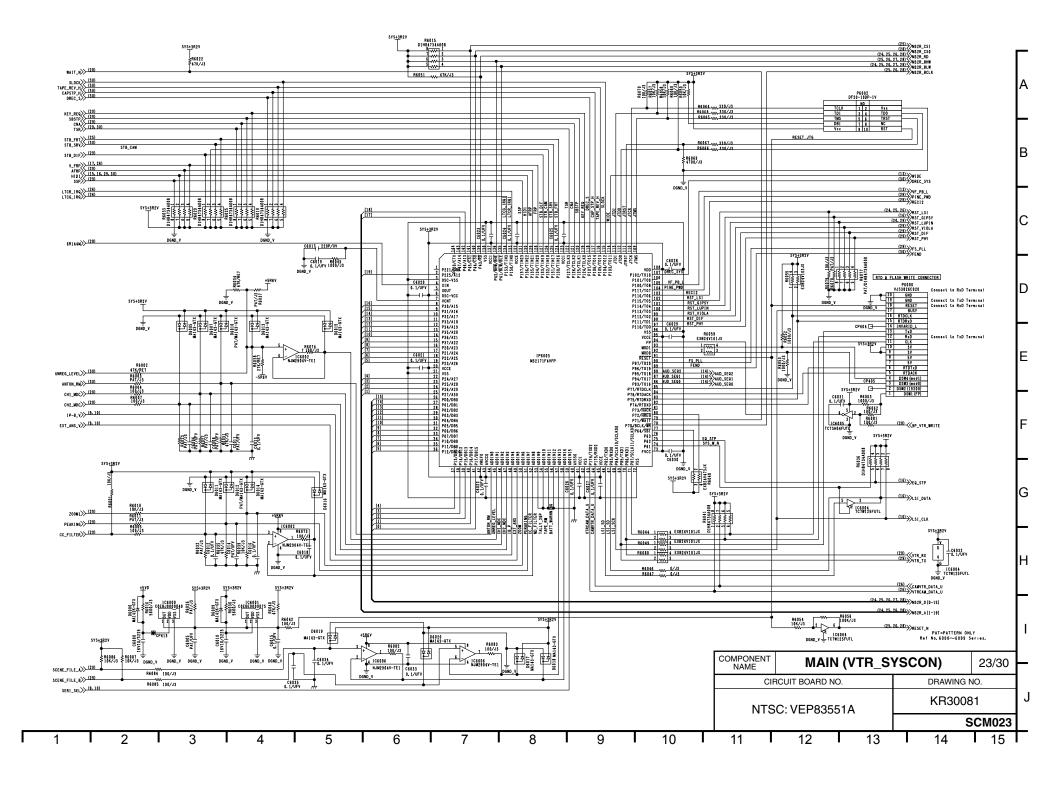


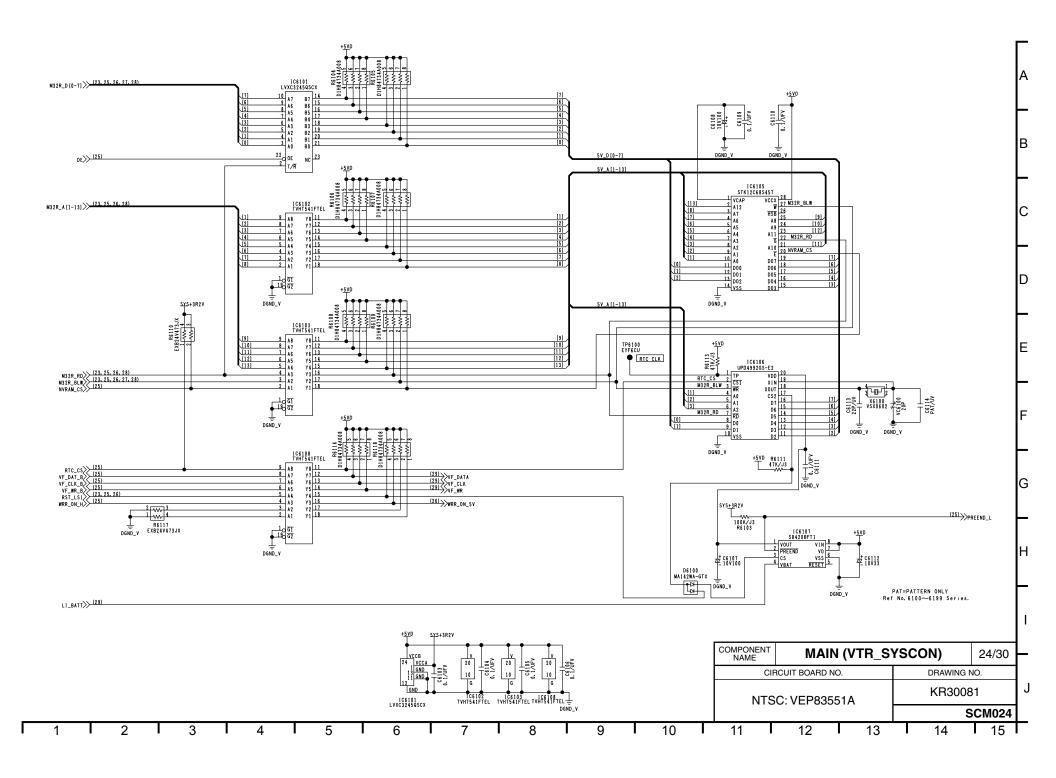


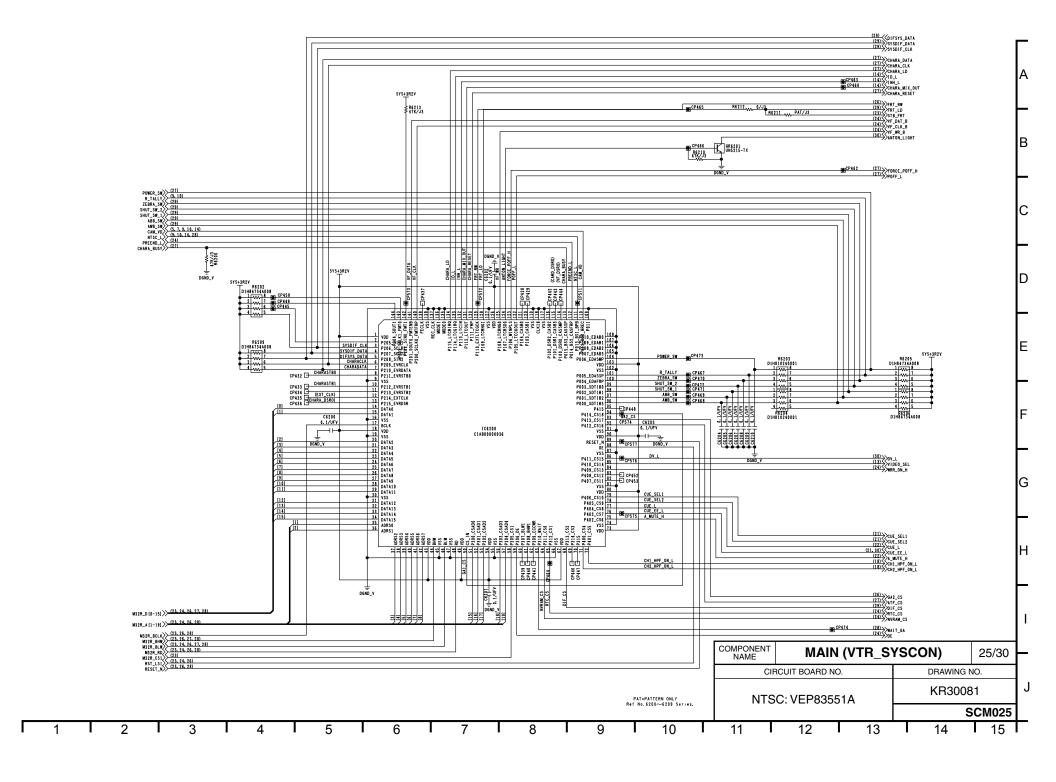


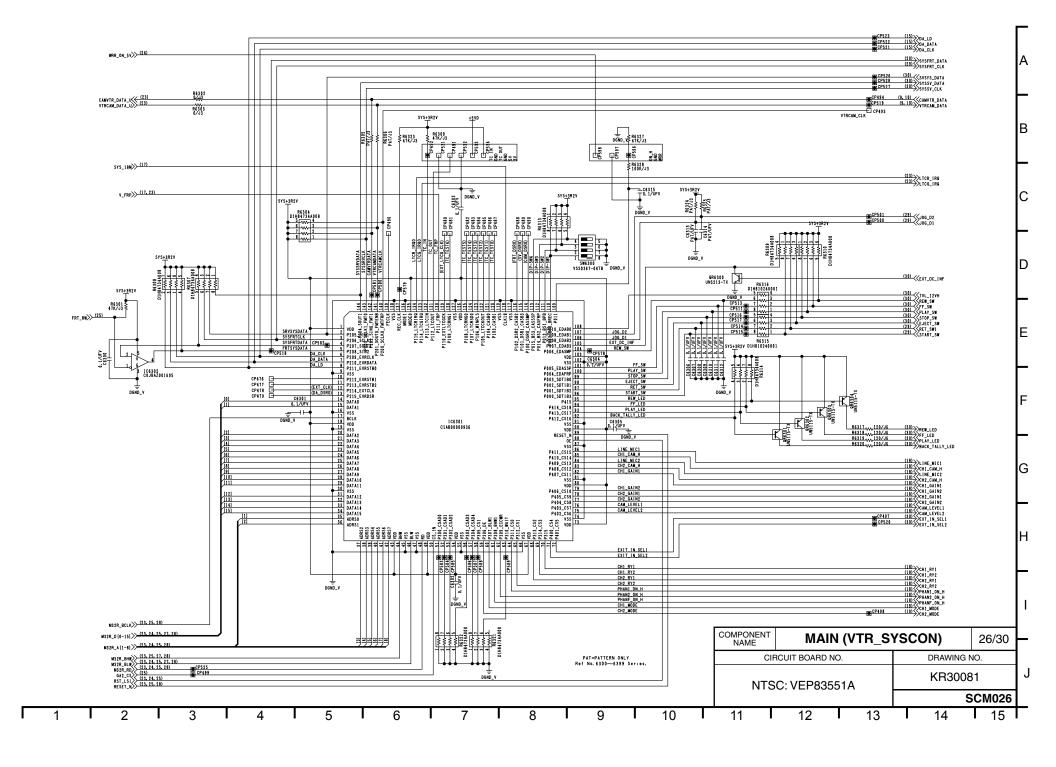


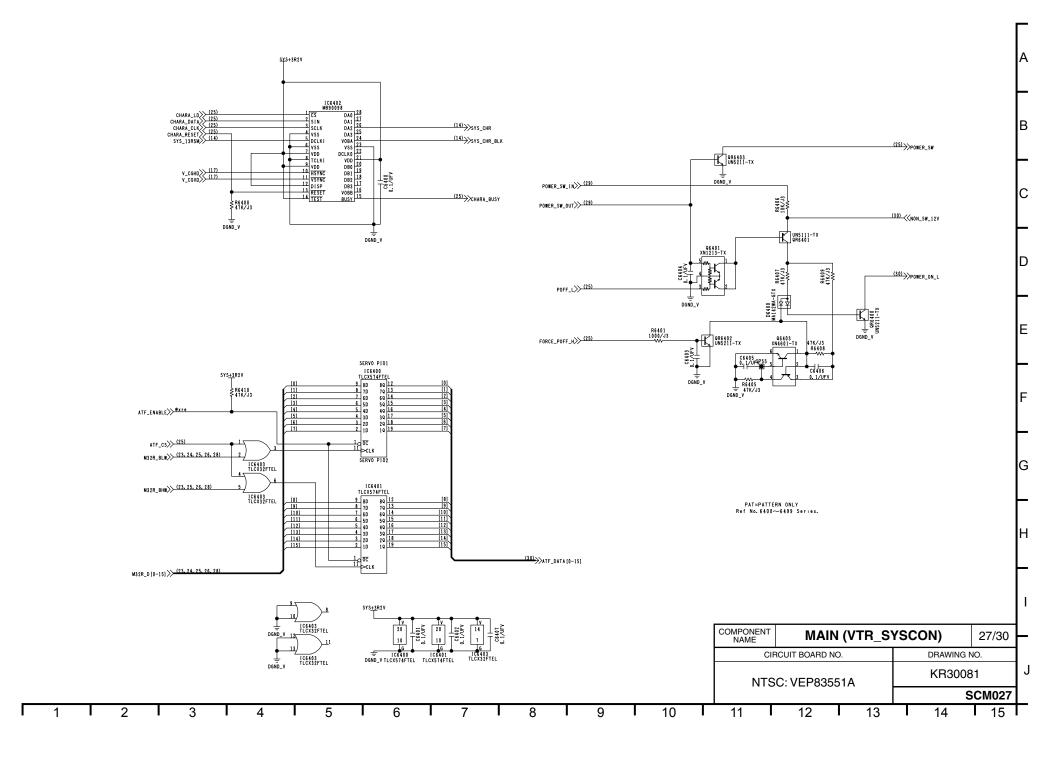


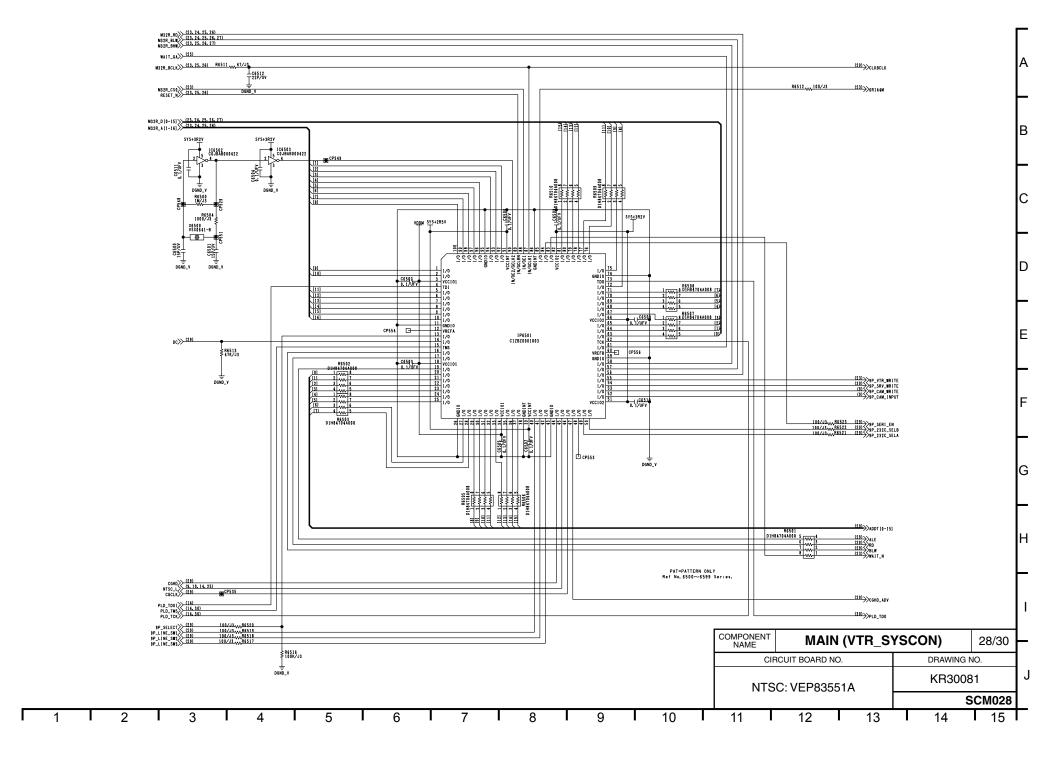


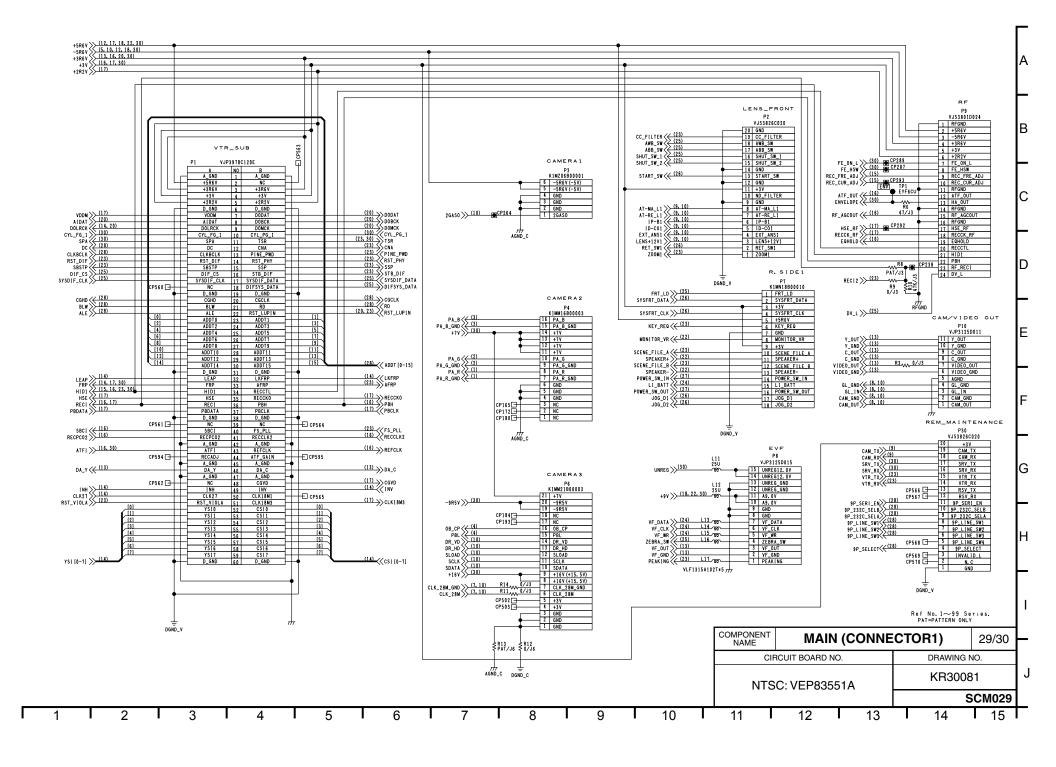


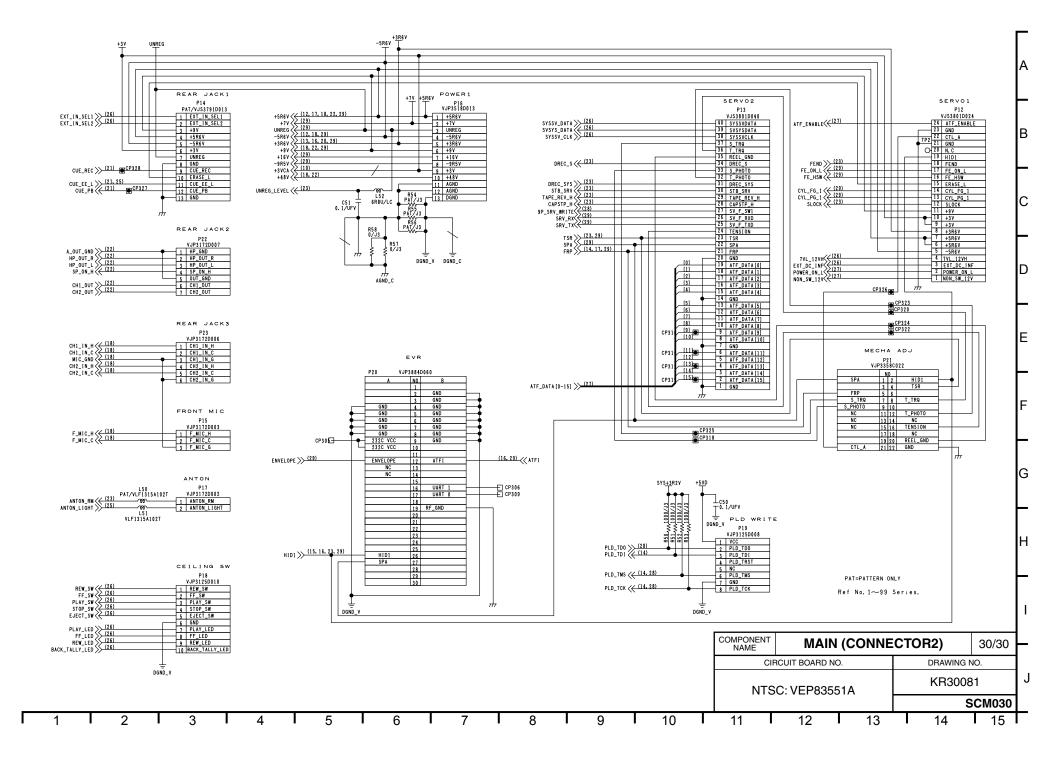


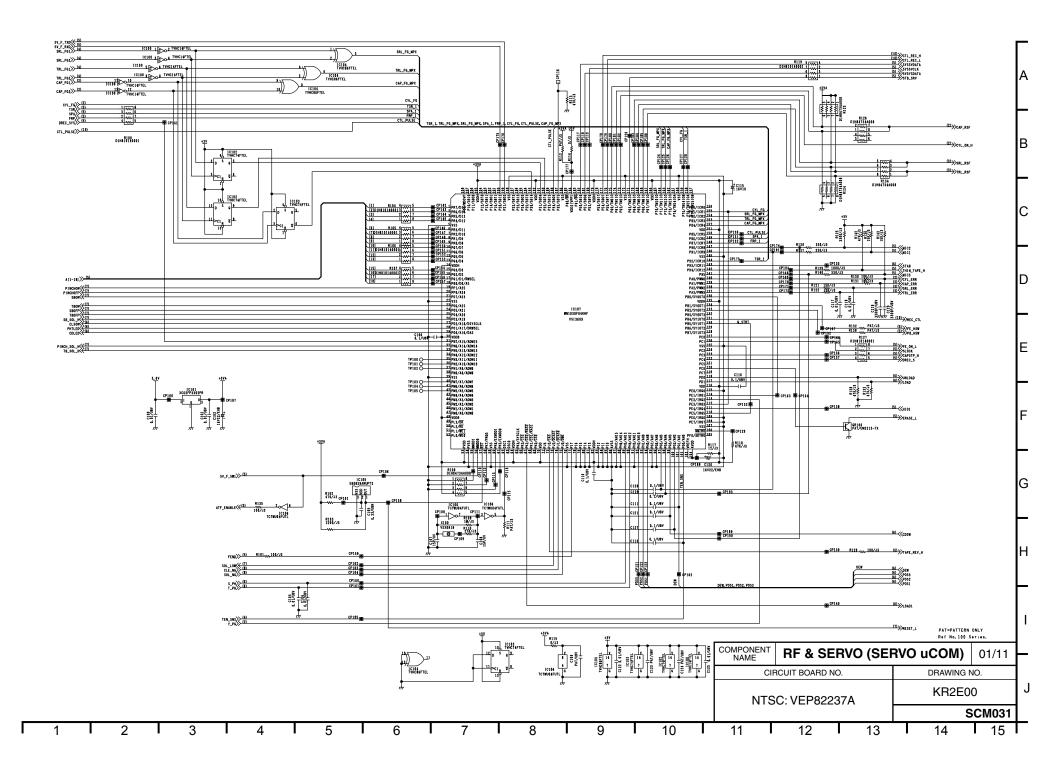


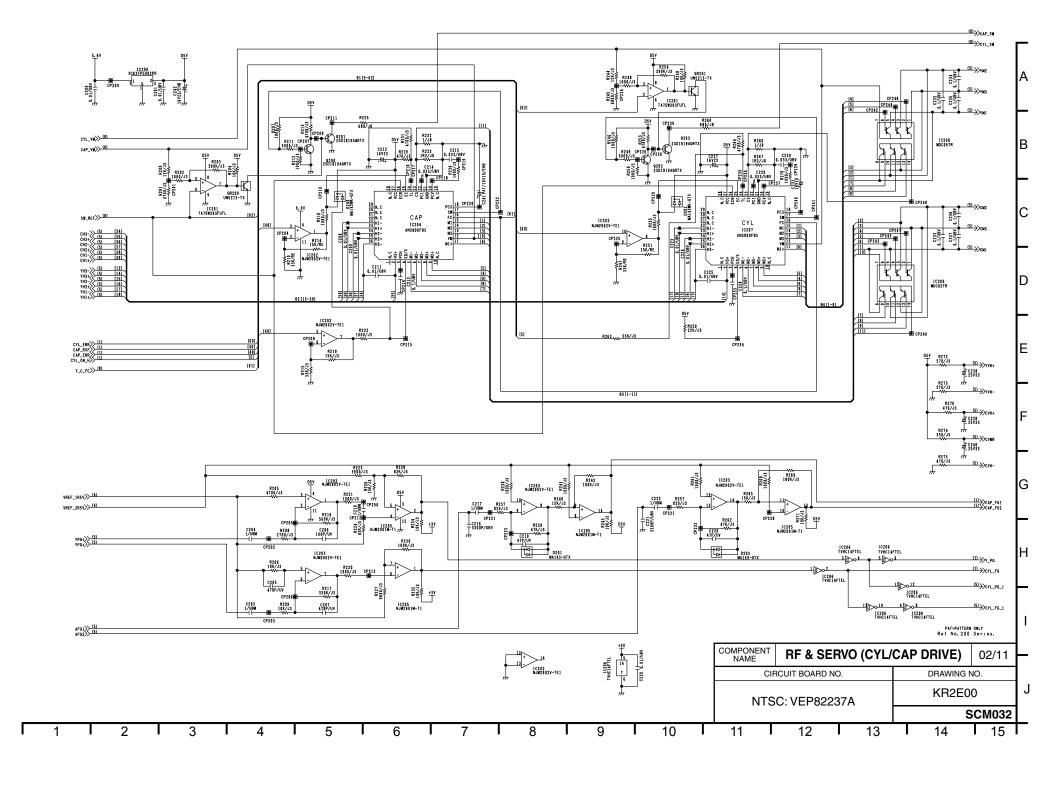


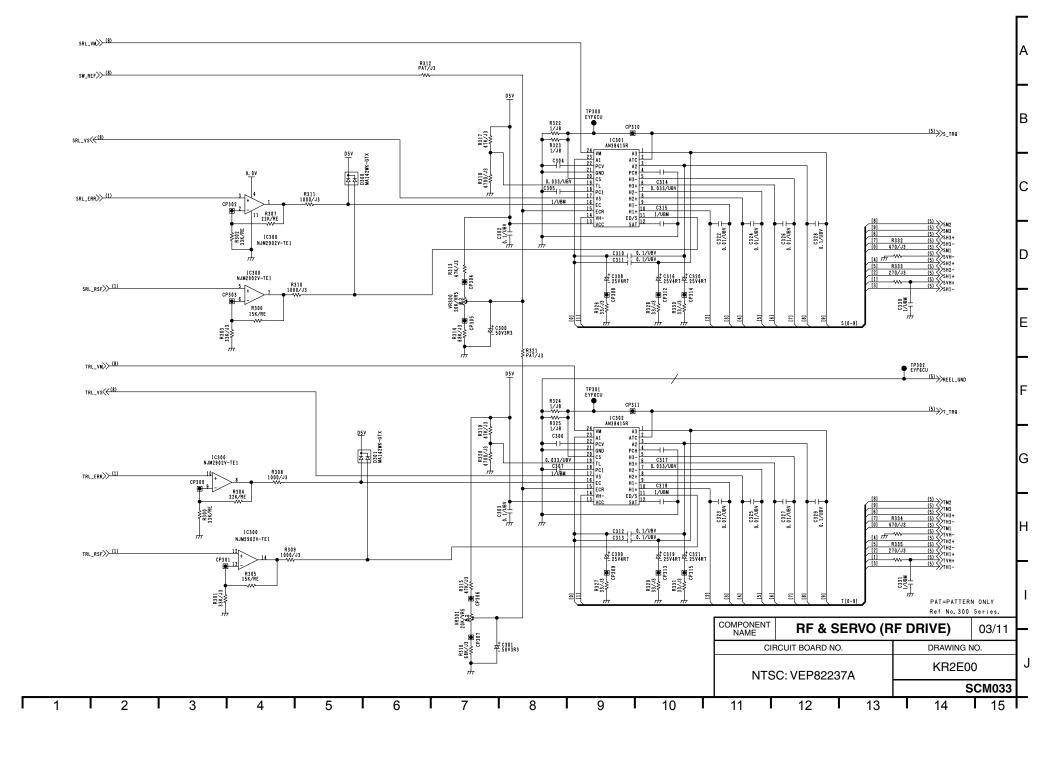


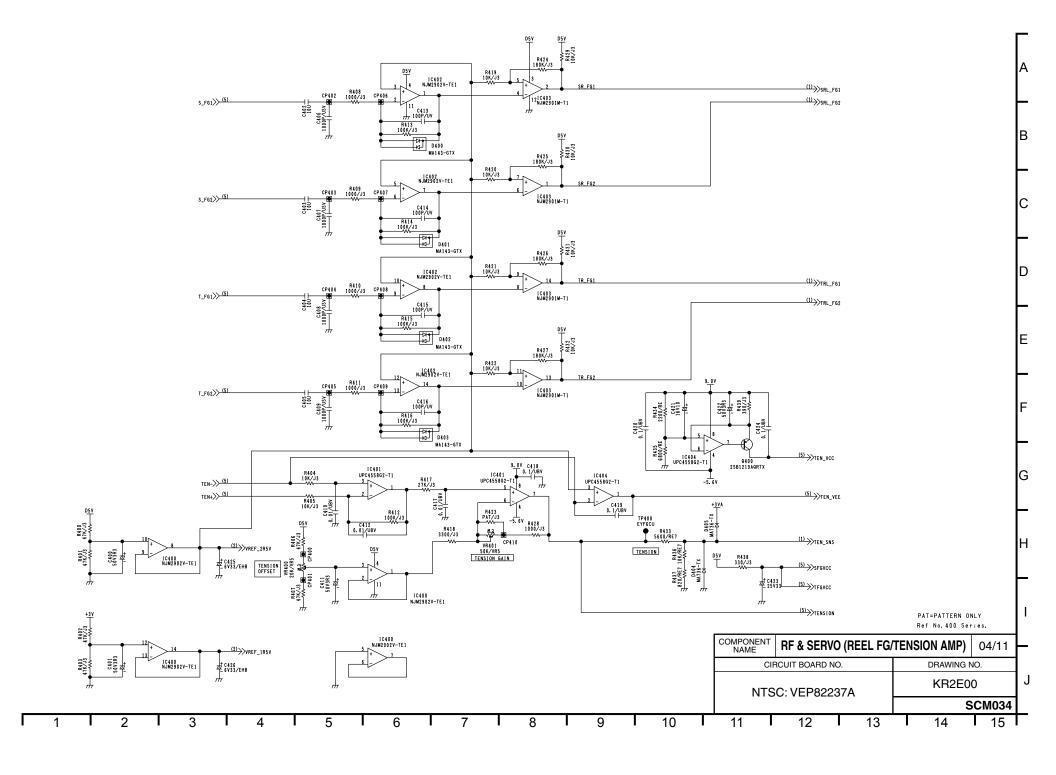


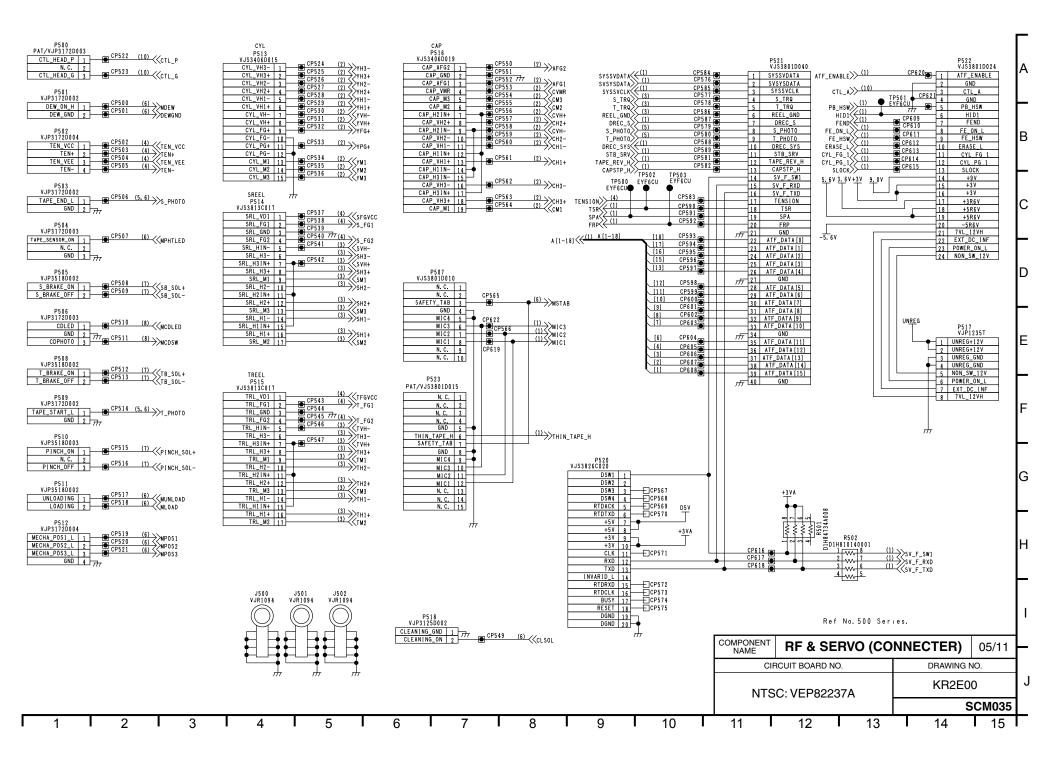


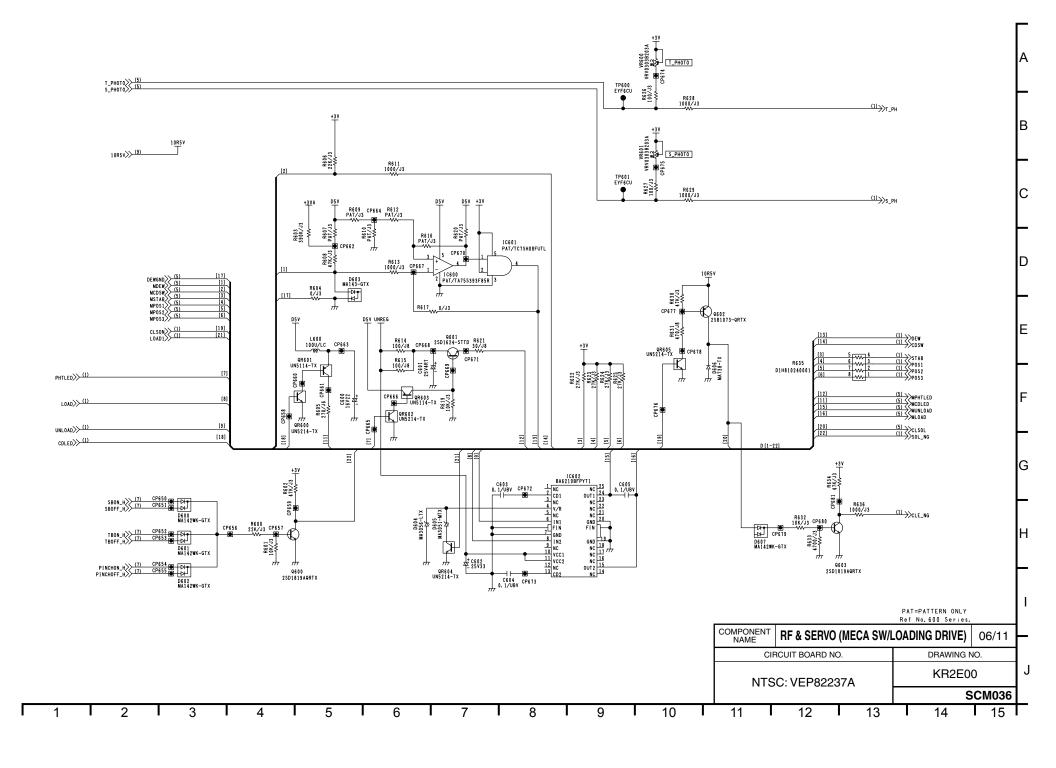


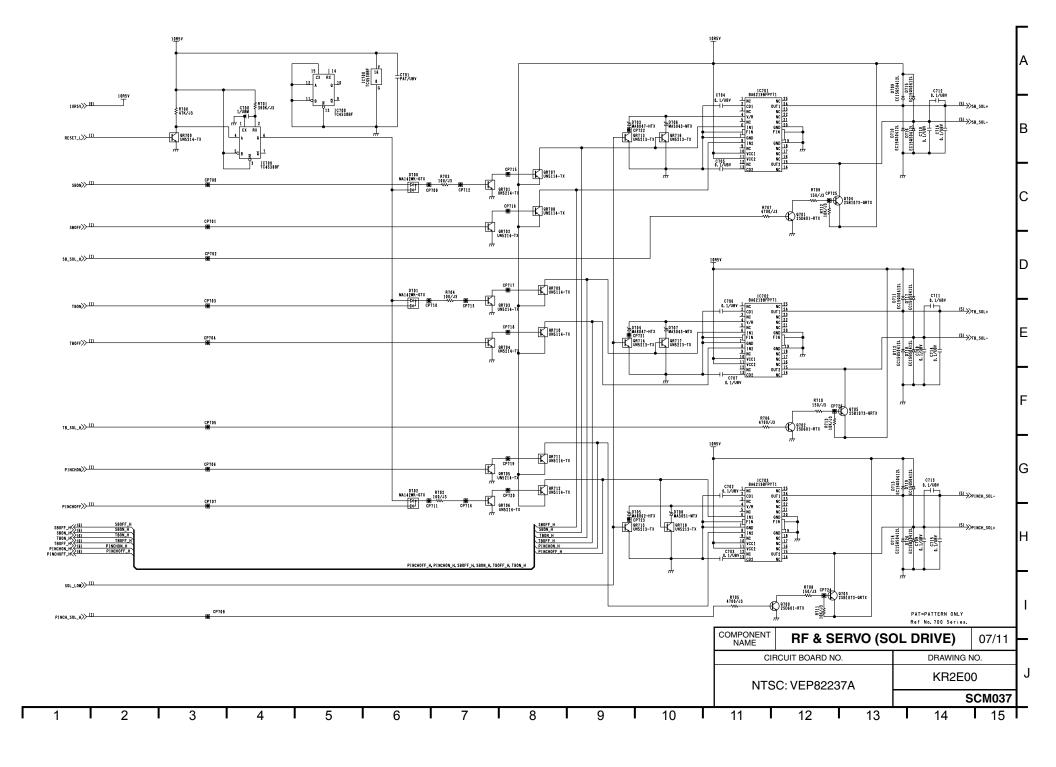


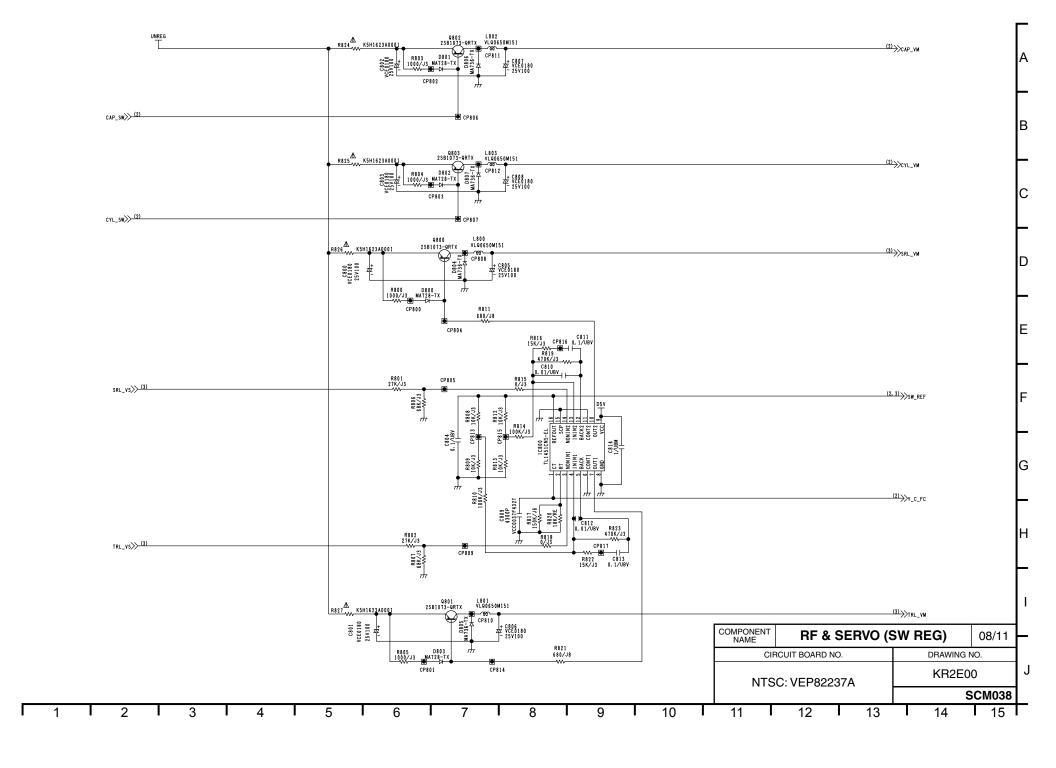


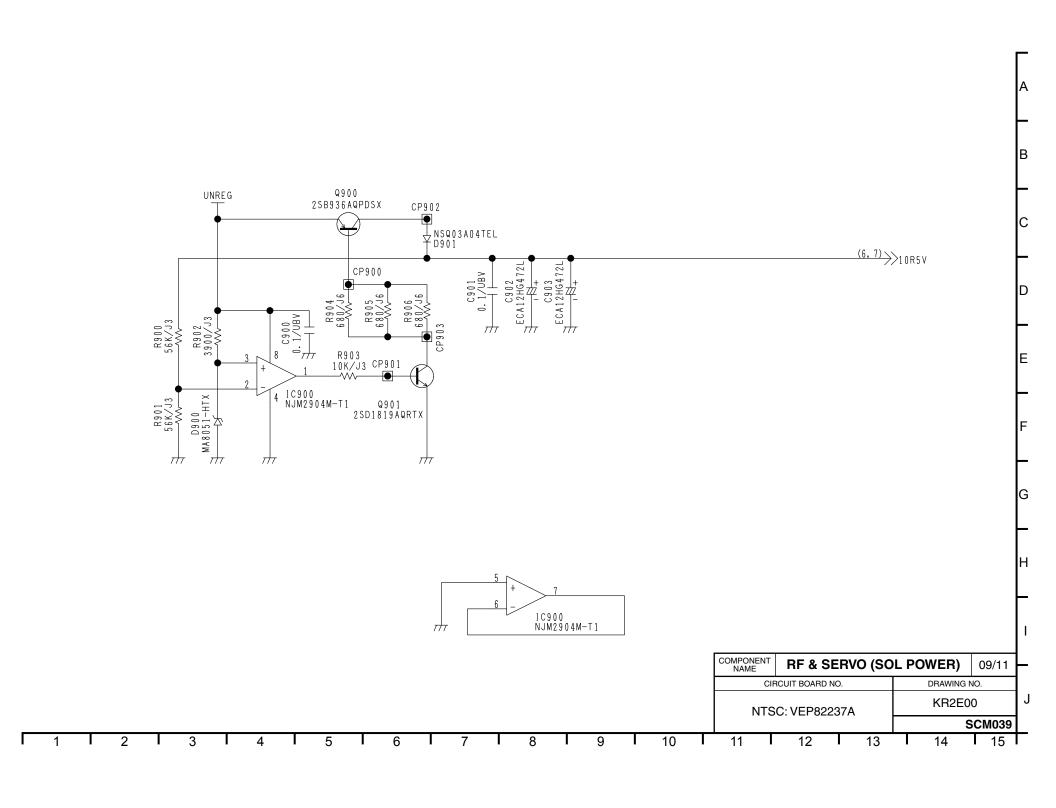


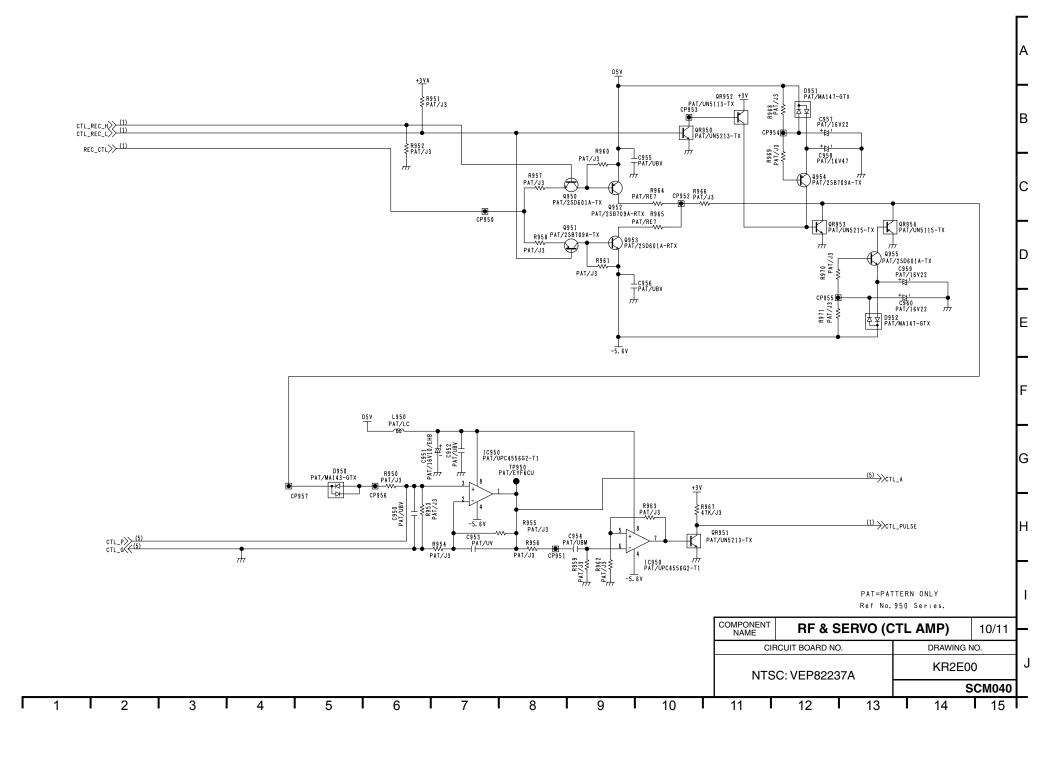


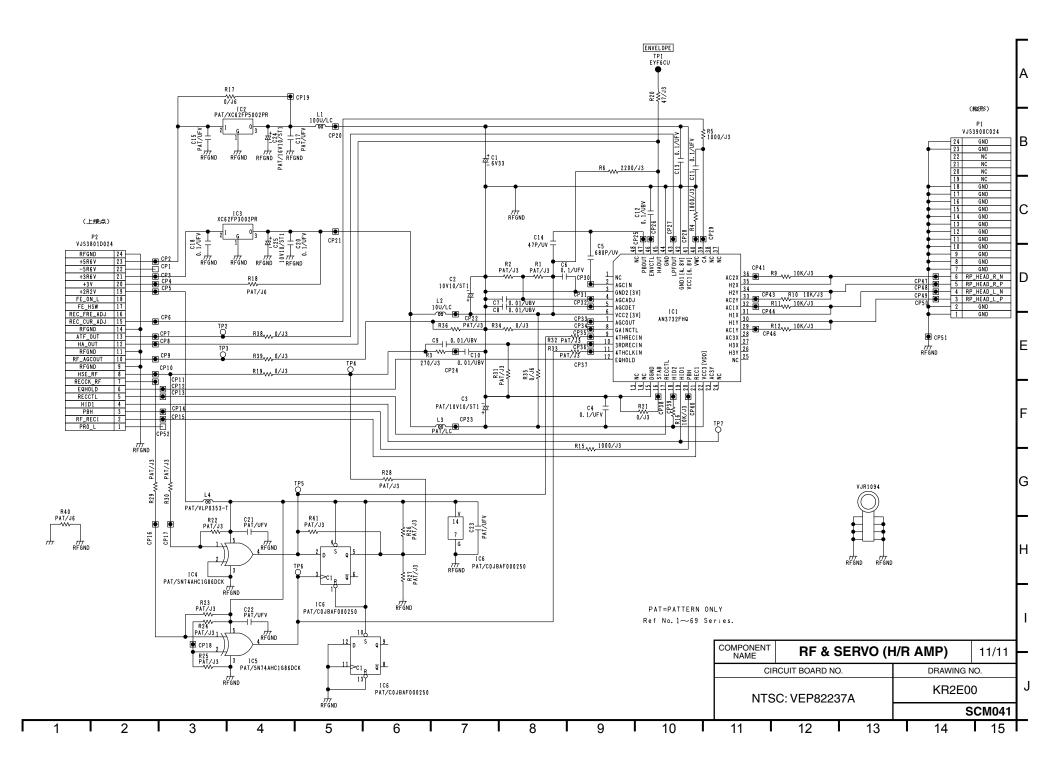


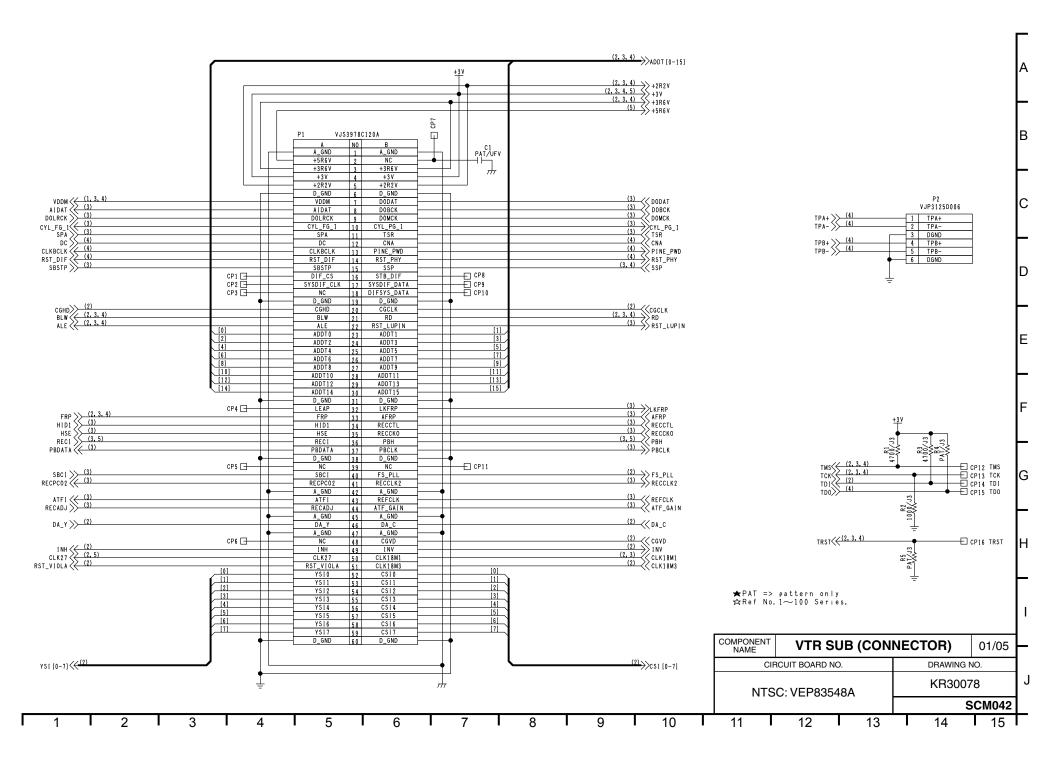


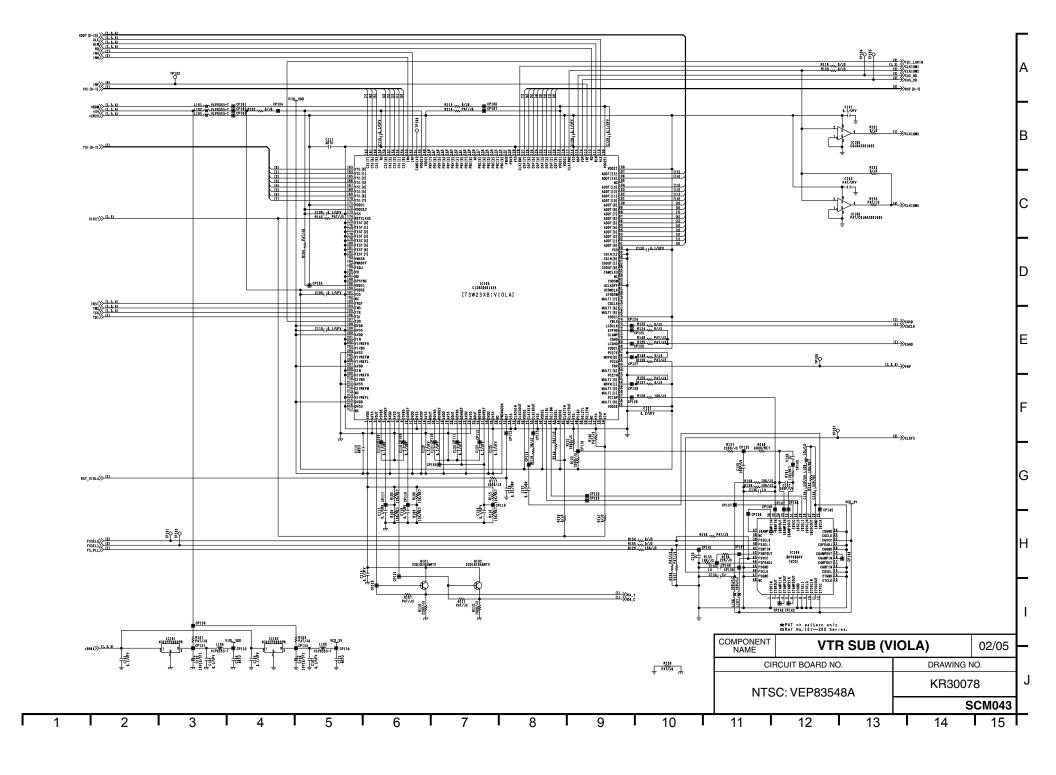


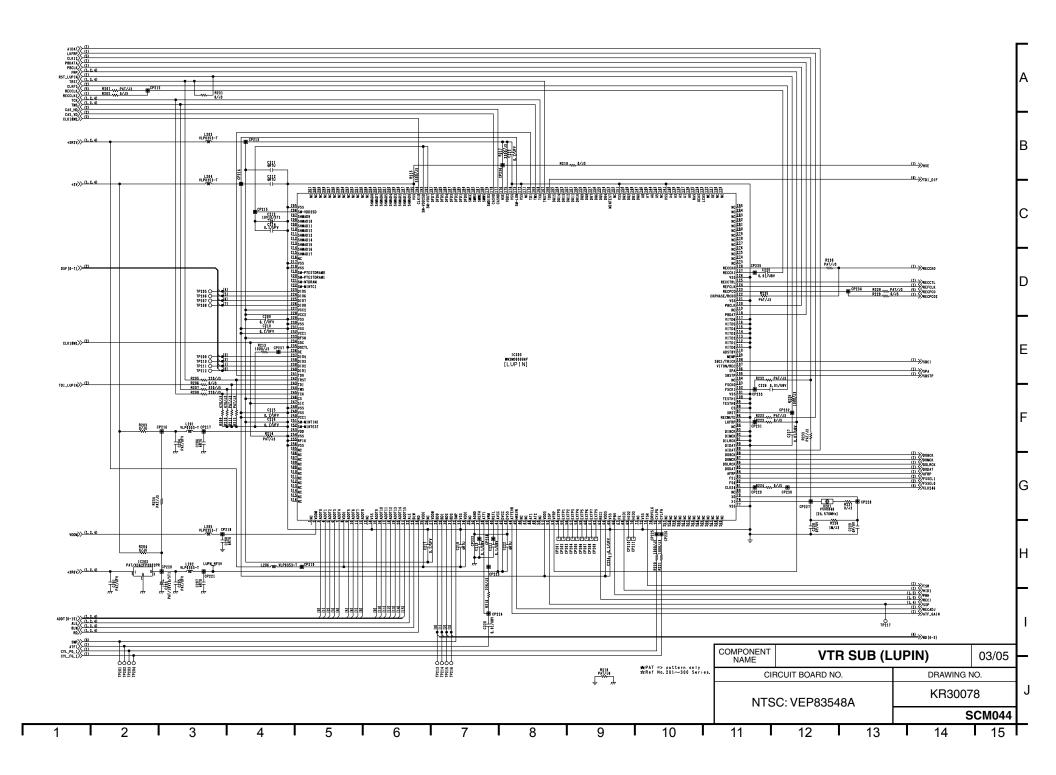


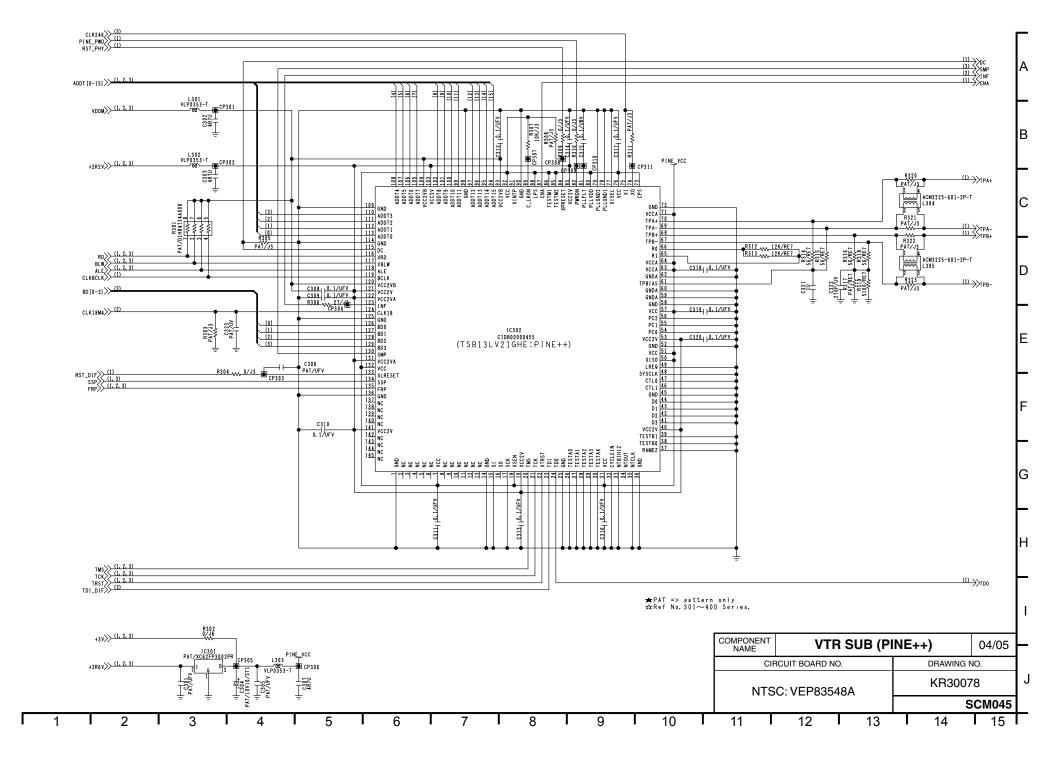


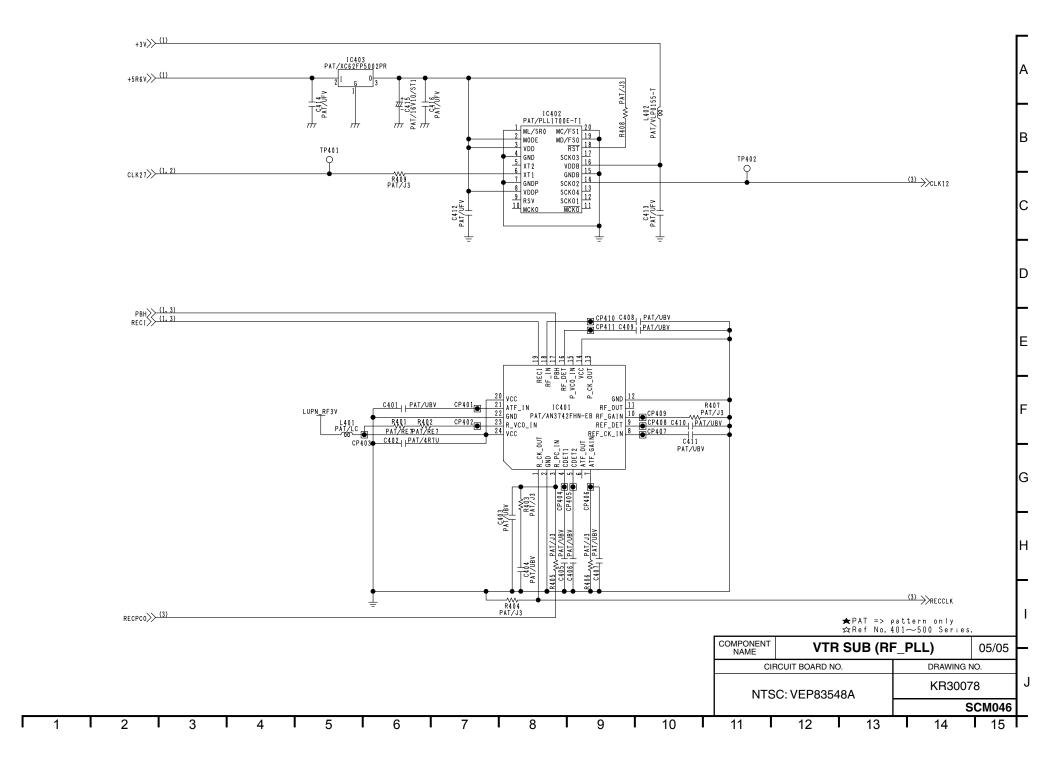


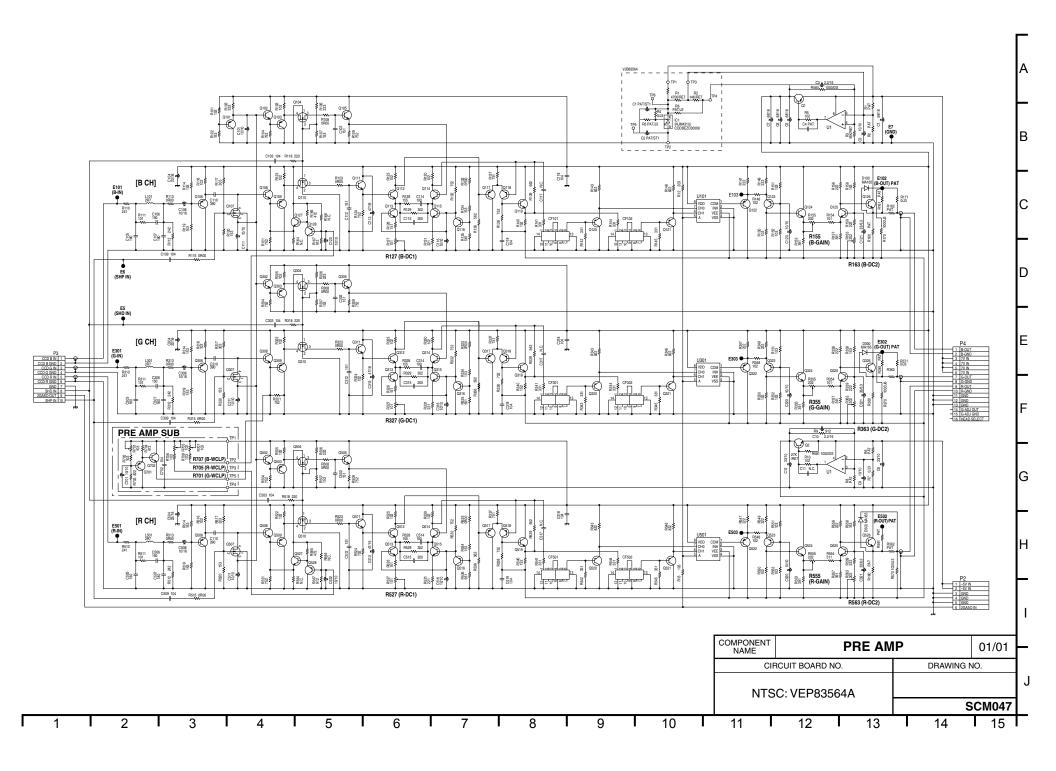


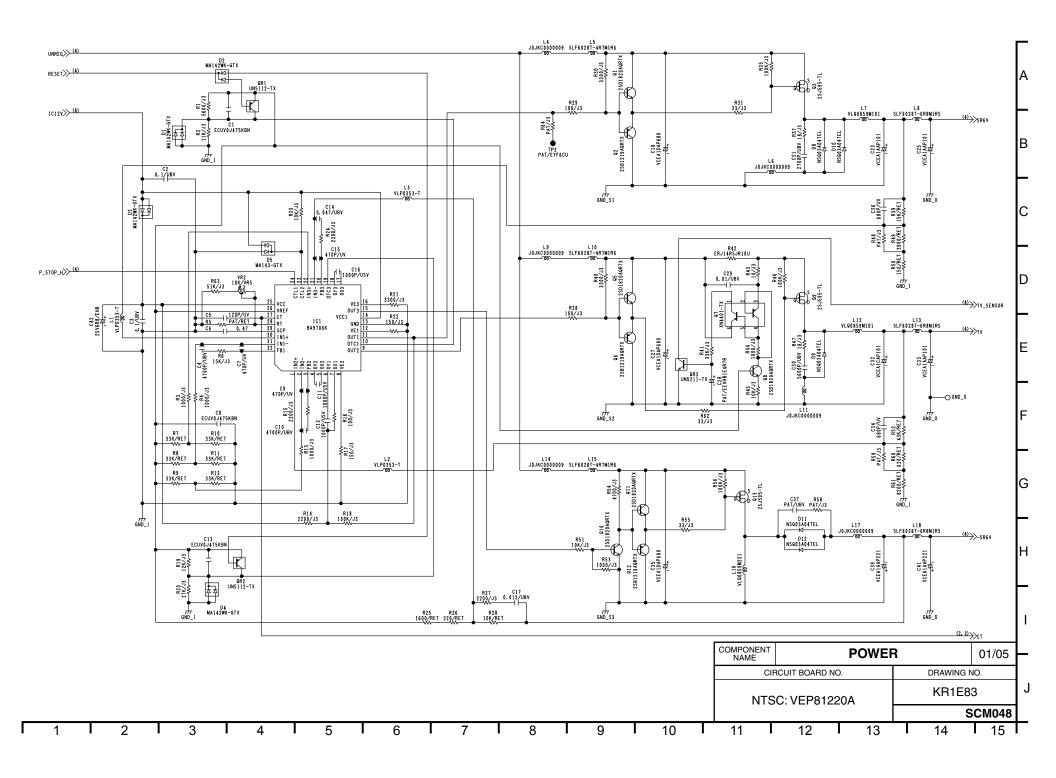


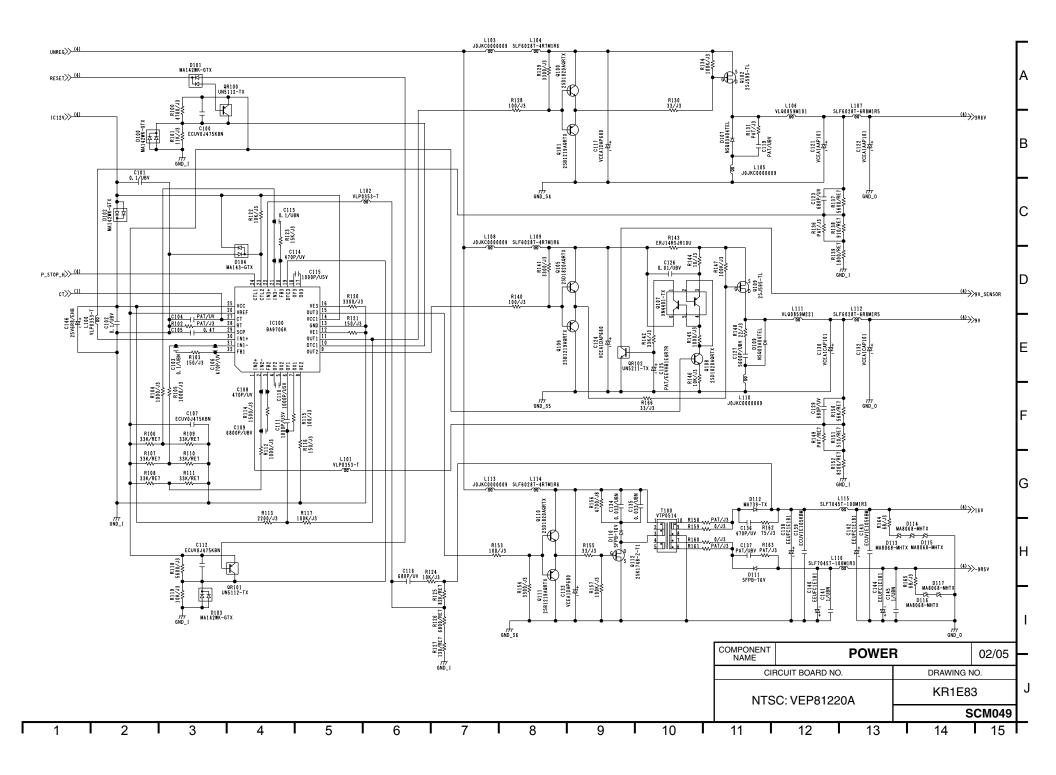


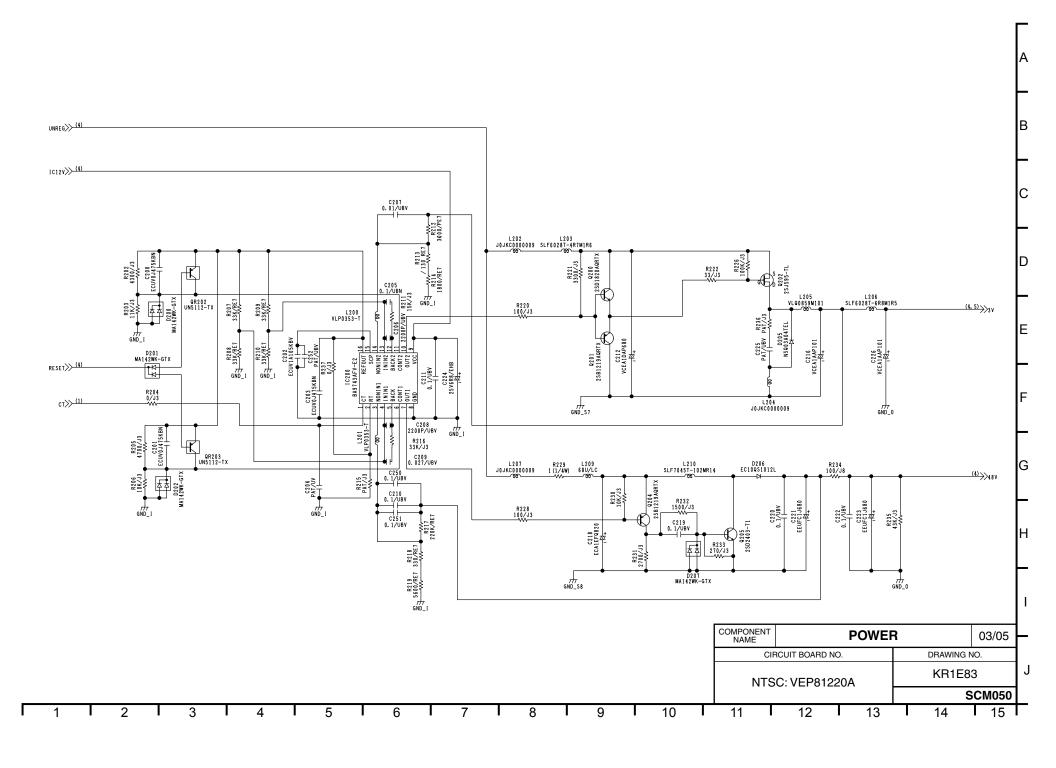


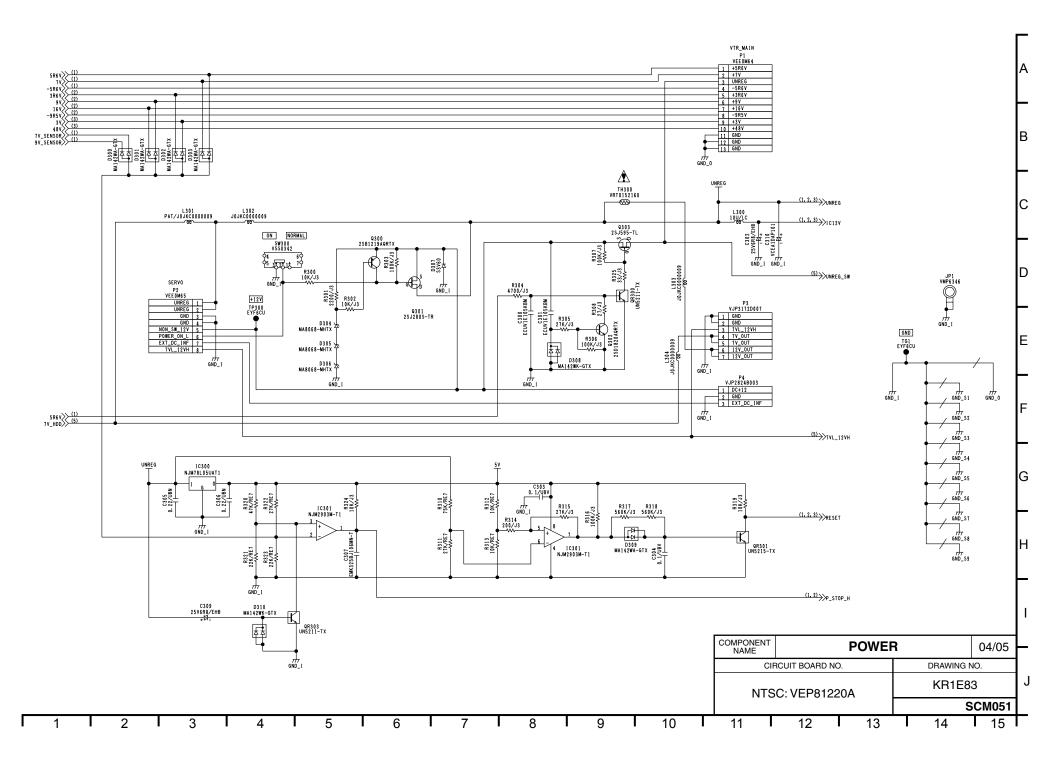


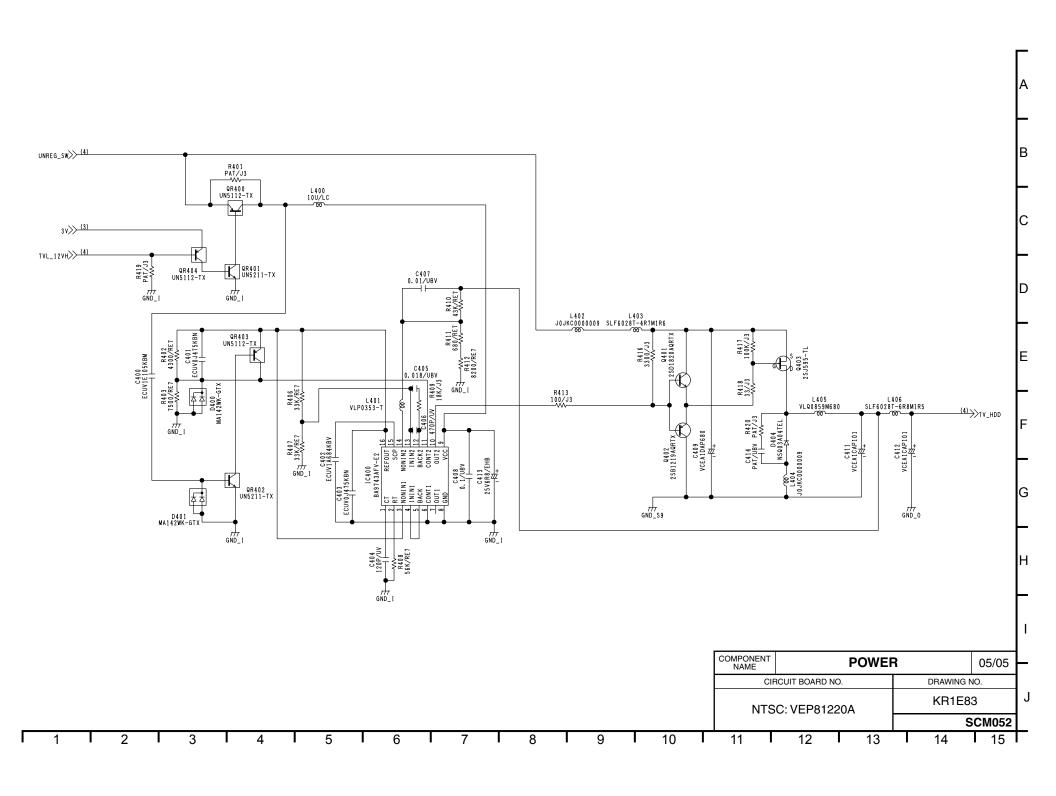


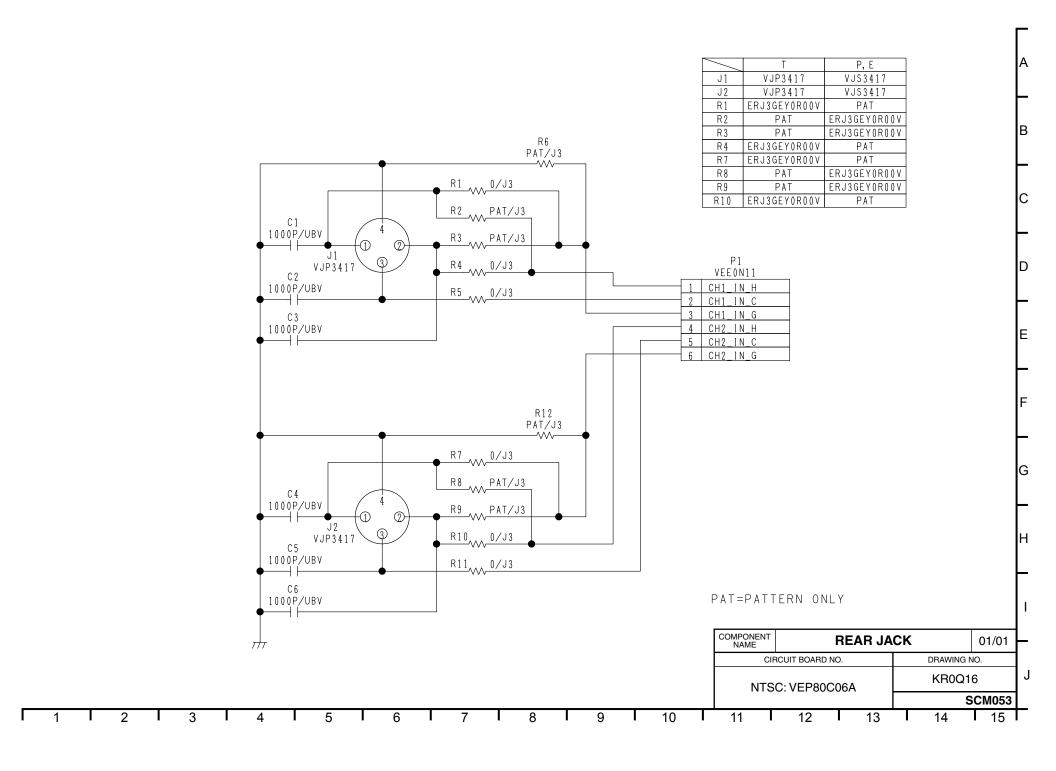


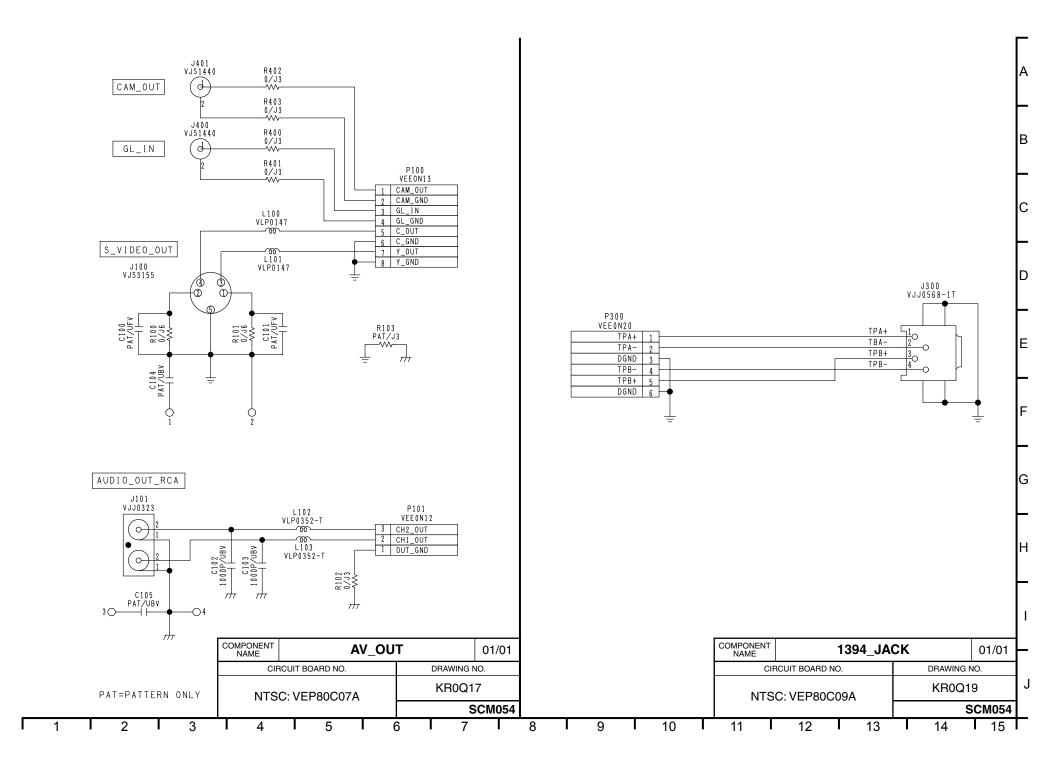


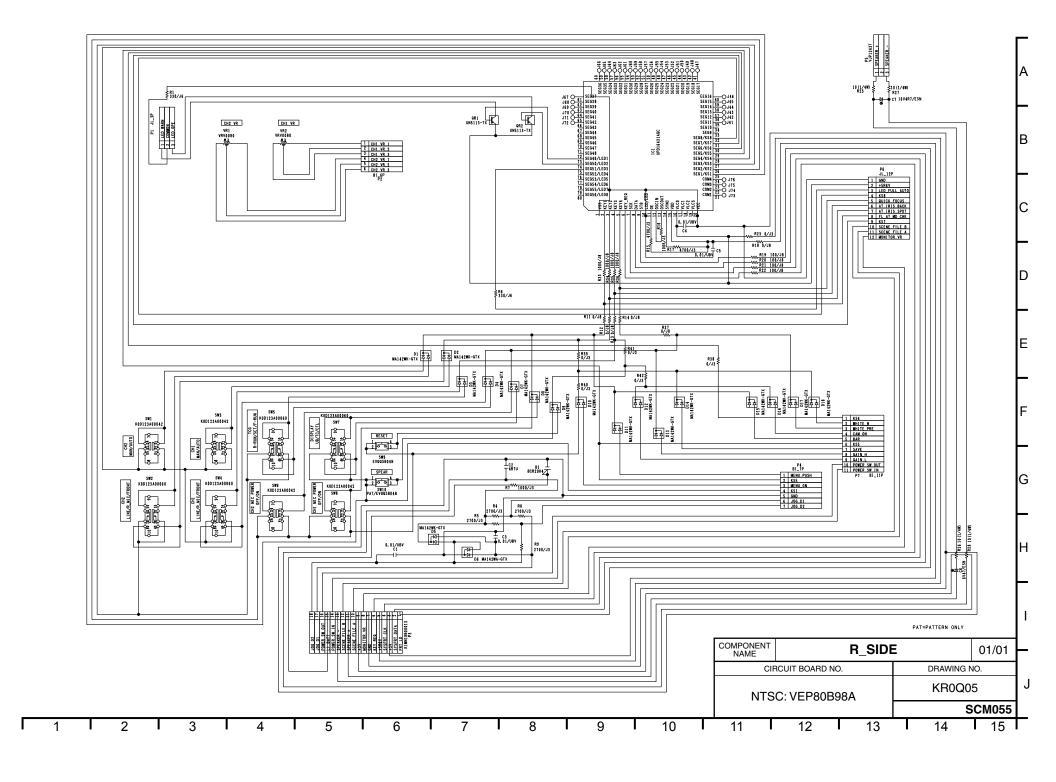


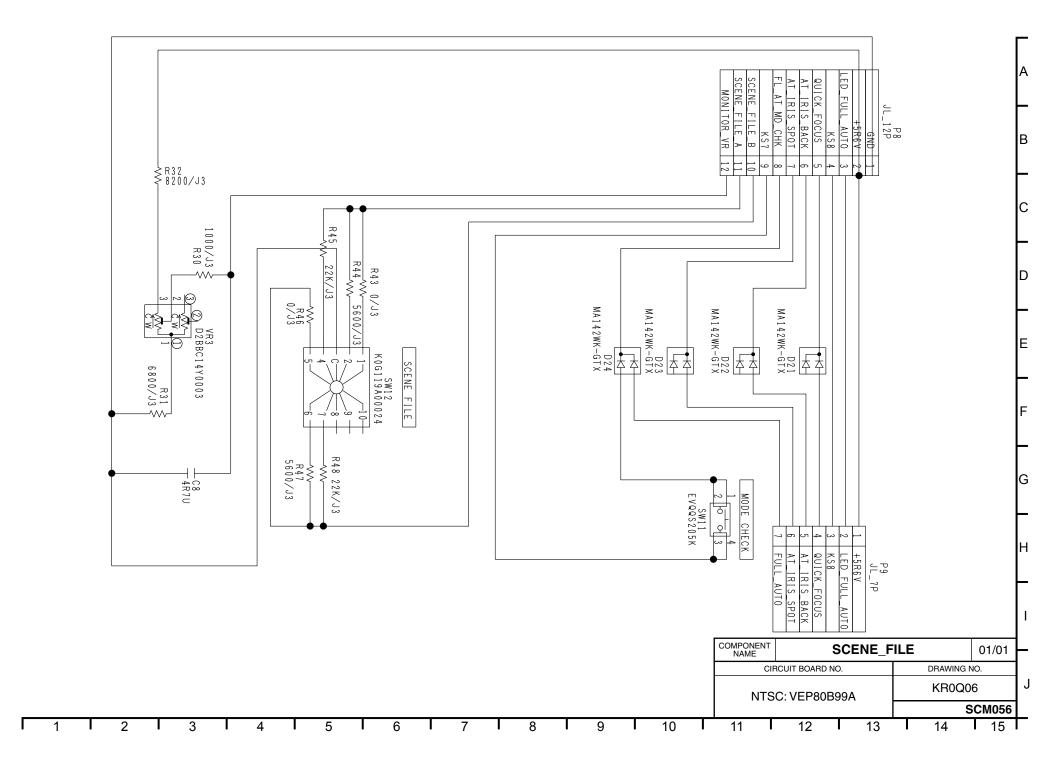


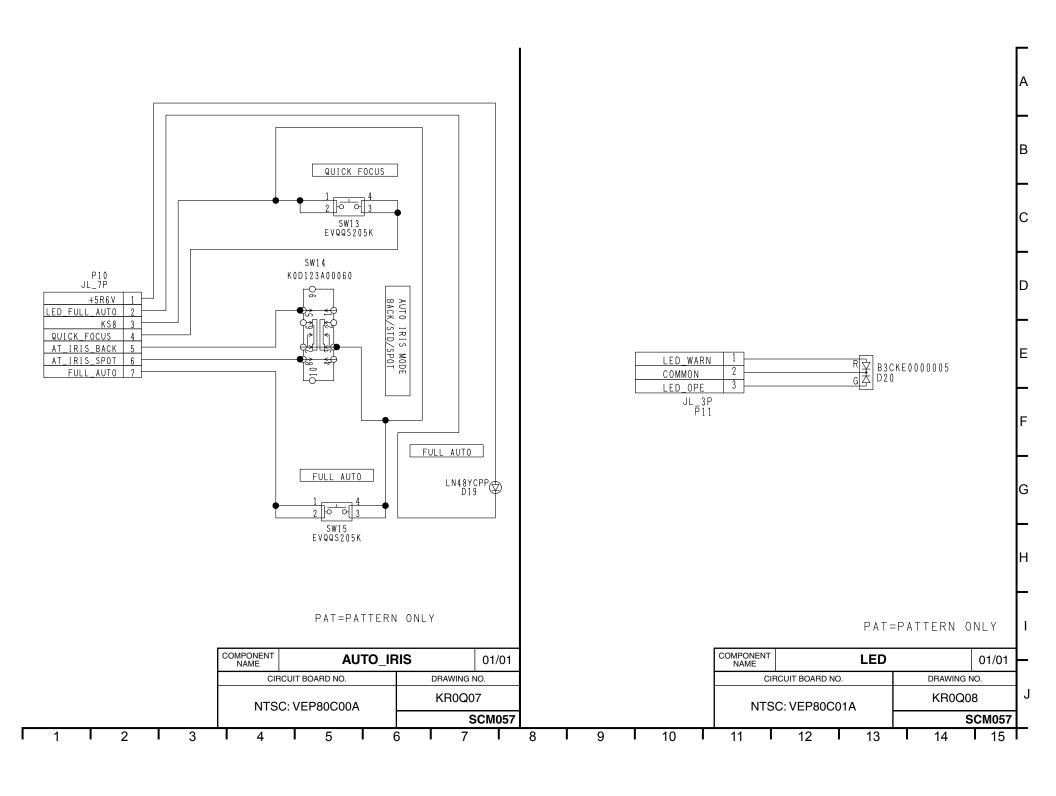


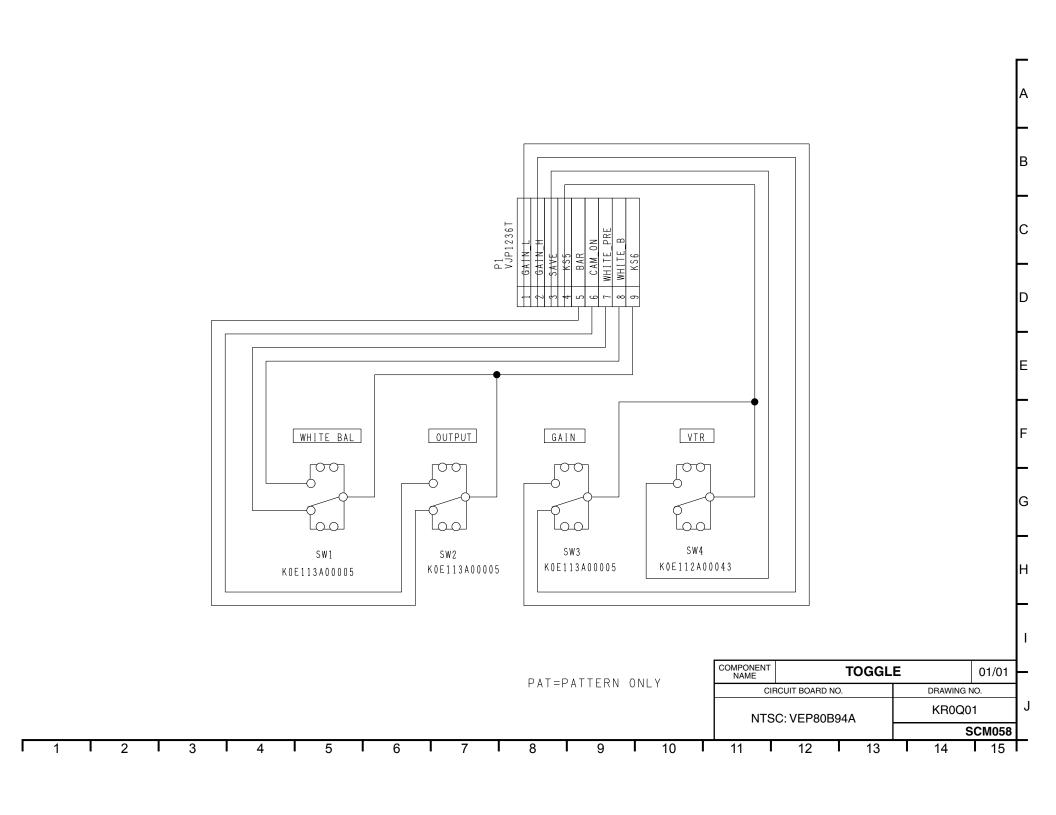


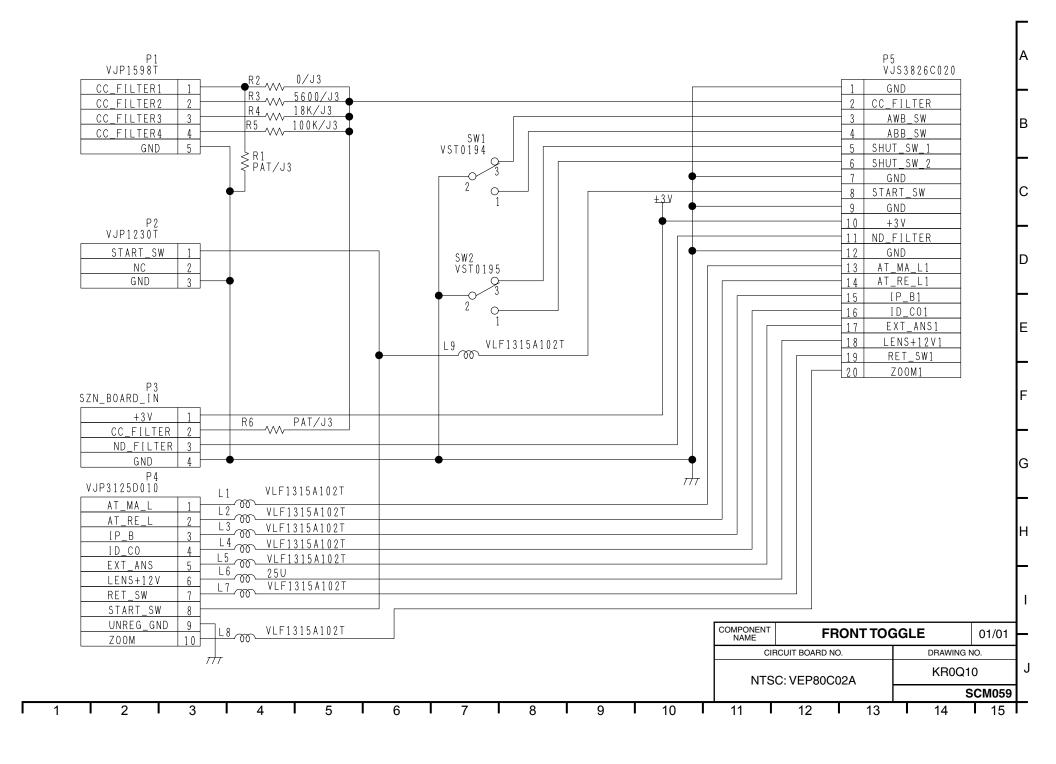


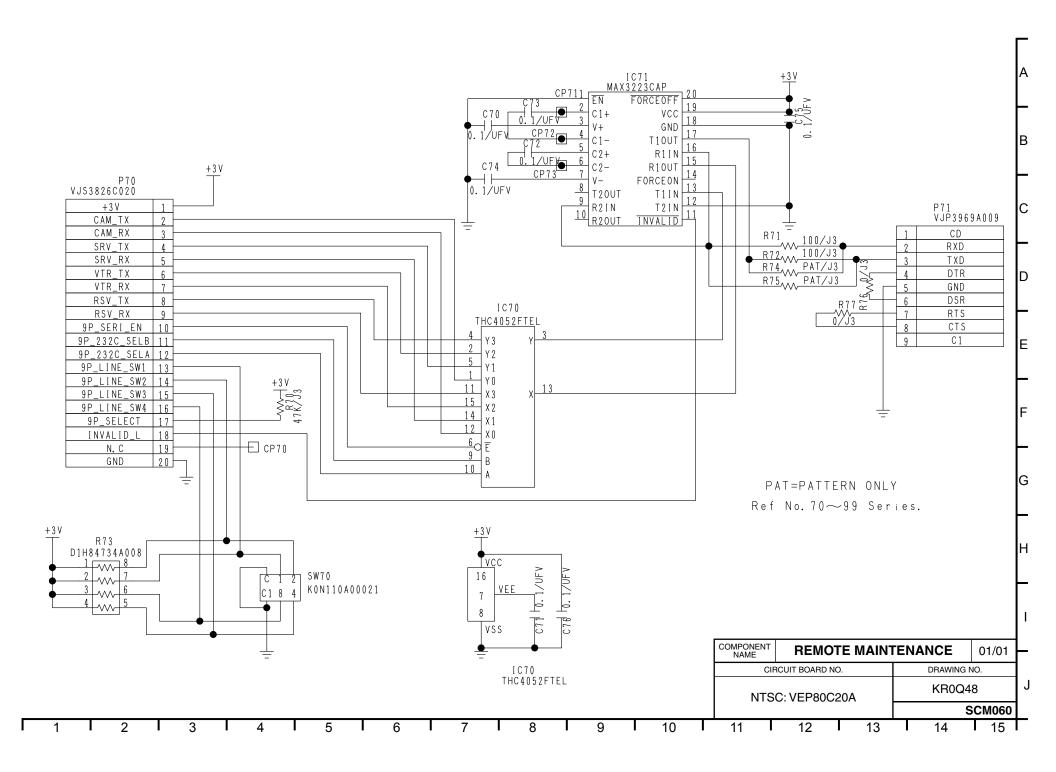


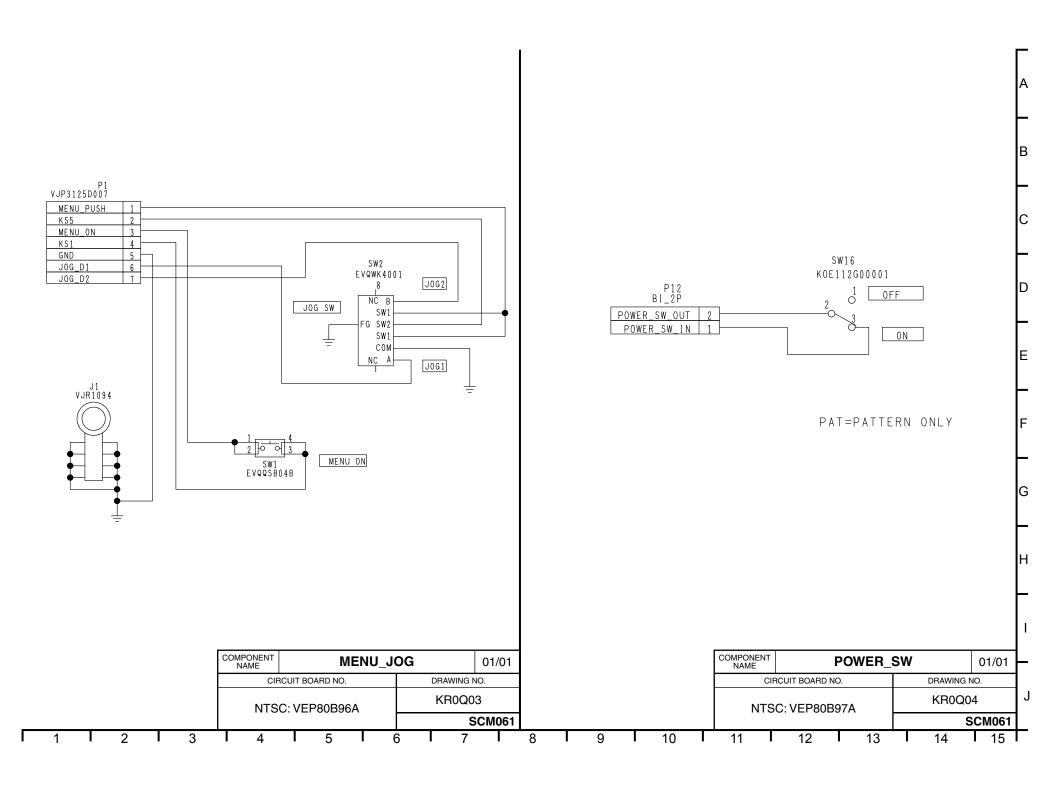


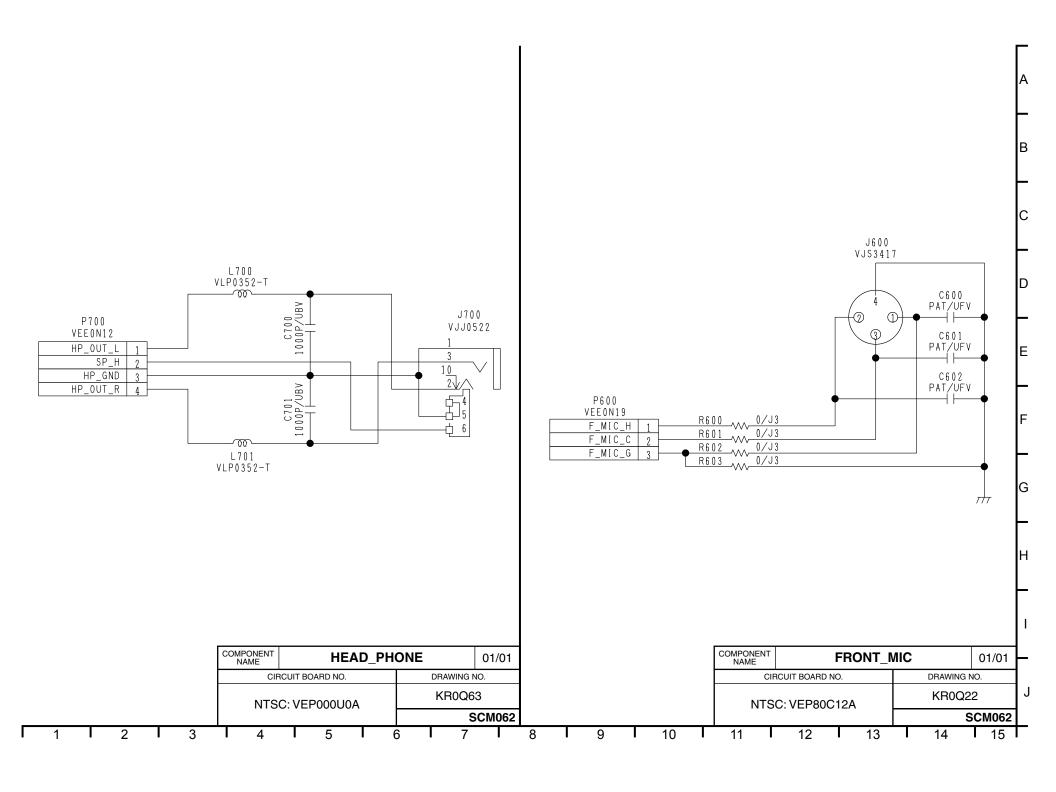


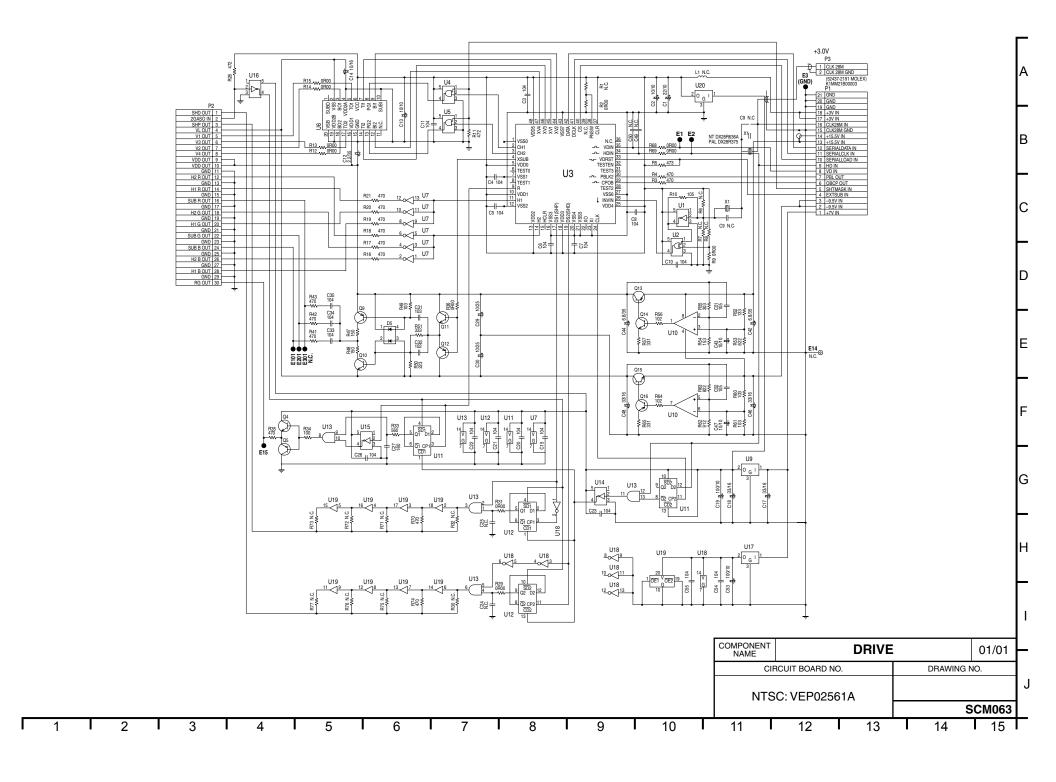












SECTION 7

CIRCUIT BOARD DIAGRAMS

NOTE:

DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFRENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

CAUTION

THE MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.

PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:

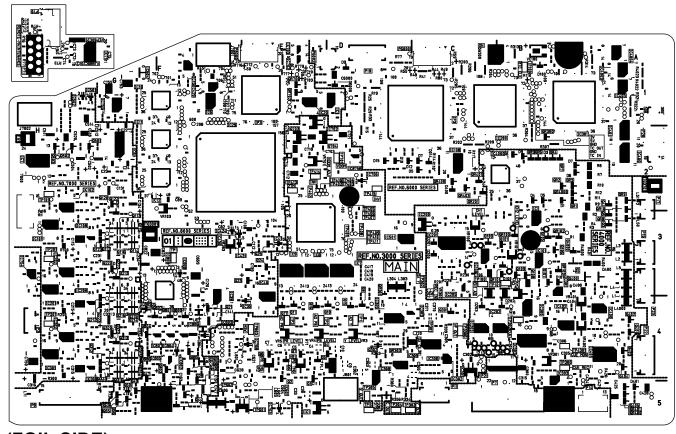
COMPONENTS IDENTIFIED WITH THE MARK \triangle HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CONTENTS

MAIN C.B.A. (VEP83551A)	CBA-1
RF & SERVO C.B.A. (VEP82237A)	CBA-3
VTR S/S C.B.A. (VEP80C03A)	CBA-5
REAR JACK C.B.A. (VEP80C06A)	CBA-5
AV OUT C.B.A. (VEP80C07A)	CBA-5
POWER C.B.A. (VEP81220A)	CBA-6
1394 JACK C.B.A. (VEP80C09A)	
SCENE FILE C.B.A. (VEP80B99)	CBA-7
R SIDE C.B.A. (VEP80B98A)	CBA-8
AUTO IRIS C.B.A. (VEP80C00A)	CBA-9
LED C.B.A. (VEP80C01A)	CBA-9
POWER SW C.B.A. (VEP80B97A)	CBA-9
TOGGLE SW C.B.A. (VEP80B94A)	CBA-10
FRONT TOGGLE SW C.B.A. (VEP80C02A)	CBA-10
MENU JOG C.B.A. (VEP80B96A)	CBA-10
BREAKER C.B.A. (VEP80C08A)	CBA-11
HEAD PHONE C.B.A. (VEP000U0A)	CBA-11
FRONT MIC C.B.A. (VEP80C12A)	CBA-11

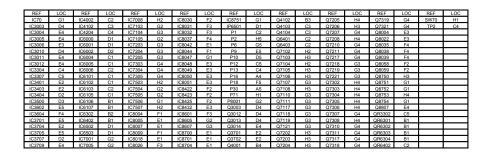
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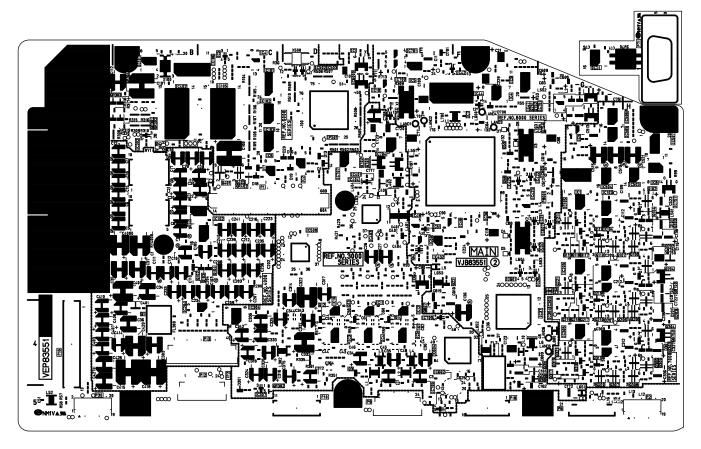
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IC3001	E26	IC4100	C3	IC7007	H2	IC8039	F4	P17	A2	Q3016	E4	Q4403	A4	Q7314	G4	Q8055	G26	QR4010	A2
IC3007	D3	IC4101	B3	IC7101	H3	IC8041	E3	P19	D1	Q3017	E4	Q4404	A4	Q7315	G4	Q8056	G26	QR4100	B3
IC3008	E3	IC4200	C3	IC7102	H2	IC8424	F3	P20	A2	Q3301	C4	Q4405	A26	Q7316	G4	Q8800	F4	QR4101	B3
IC3009	E3	IC4201	C3	IC7108	G3	IC8430	F3	P21	B4	Q3302	D4	Q7112	G3	Q7320	G4	Q8801	F4	QR4102	B3
IC3301	C4	IC4202	B4	IC7201	H3	IC8431	F3	P22	A4	Q3703	E2	Q7113	G3	Q7322	G4	Q8802	G4	QR4103	B3
IC3302	C4	IC4203	C4	IC7202	H3	IC8604	G1	P23	A3	Q3704	E2	Q7114	G3	Q7323	G4	Q8803	F4	QR4400	A26
IC3303	D4	IC4205	C3	IC7208	G4	IC8800	F3	P70	H1	Q4000	B3	Q7115	G3	Q7501	G2	Q8804	G4	QR4401	A26
IC3305	D4	IC4300	B4	IC7301	H4	IC8802	F4	P6000	C1	Q4002	B3	Q7116	G3	Q7502	G2	Q8805	F4	QR6201	C2
IC3306	C4	IC4301	B3	IC7302	H4	IC8803	F4	P6002	D1	Q4003	A3	Q7120	G2	Q7503	H2	Q8806	G4	QR6300	B2
IC3308	D4	IC4302	B4	IC7308	G4	IC8808	F3	P8000	E1	Q4004	A2	Q7122	G3	Q8021	F4	QR3301	D3	QR6400	C2
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IC3501	D3	IC4400	A4	IC7502	G1	IP3402	E3	Q3002	E4	Q4100	C3	Q7212	G4	Q8024	E3	QR4000	B2	QR6403	C2
IC3601	E26	IC4401	A4	IC8001	D1	IP6003	C1	Q3004	D4	Q4101	B3	Q7213	G3	Q8025	E3	QR4001	B2	QR8700	E1
IC3702	E1	IC4402	B4	IC8006	F1	IP8003	E1	Q3005	E4	Q4105	B3	Q7214	G4	Q8026	F4	QR4002	B2	QR8702	E1
IC3703	E26	IC6108	C2	IC8010	F1	P3	H4	Q3006	E4	Q4106	B3	Q7215	G3	Q8028	F4	QR4003	B2		
IC3706	D2	IC6200	C1	IC8011	F2	P4	H3	Q3007	E4	Q4107	B3	Q7216	G4	Q8044	F26	QR4004	B2		
IC3708	E4	IC6301	B1	IC8012	F2	P7	B26	Q3008	E4	Q4108	B3	Q7220	G3	Q8045	F26	QR4005	B2		
IC4000	B2	IC6400	A2	IC8015	F1	P8	H26	Q3009	D4	Q4109	B3	Q7222	G3	Q8047	G4	QR4006	B2		
IC4001	B3	IC6401	A2	IC8020	E1	P11	C26	Q3010	D4	Q4400	A3	Q7223	G4	Q8048	G26	QR4007	B2		
IC4003	A1	IC6403	A1	IC8029	F2	P14	A26	Q3011	E4	Q4401	A4	Q7312	G4	Q8049	G26	QR4008	A3		



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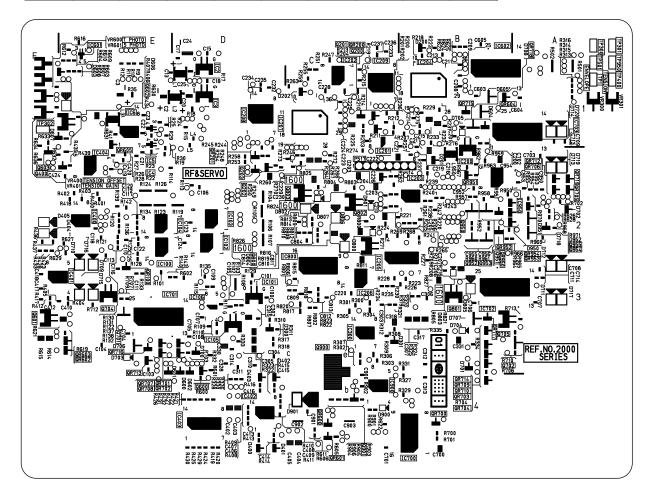
MAIN C.B.A (VEP83551A) 8P BUF SUB C.B.A (VEP000L8A)





RF & SERVO C.B.A (VEP82237A)

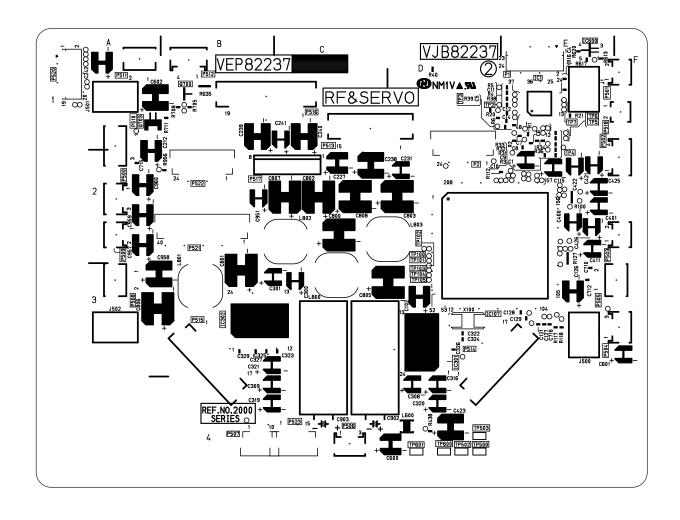
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IC4	E1	IC401	F26	Q701	E26	QR602	E26	QR718	B1
IC5	E1	IC402	D26	Q702	A26	QR603	E26	QR950	B2
IC6	E1	IC403	D26	Q704	E26	QR604	B1	QR951	B2
IC100	E2	IC404	E2	Q705	B26	QR605	E1	QR952	B2
IC101	D26	IC601	E1	Q800	C2	QR700	B26	QR953	B2
IC102	D2	IC602	B1	Q801	B26	QR701	D26	QR954	B2
IC103	D2	IC700	B26	Q802	C2	QR702	D26	TP1	A1
IC104	E2	IC701	E26	Q803	C2	QR703	B26	TP300	A1
IC105	D26	IC702	B26	Q900	C26	QR704	B26	TP301	A1
IC106	D26	IC703	A1	Q901	C26	QR705	A2	TP302	F1
IC200	B2	IC800	C26	Q950	B2	QR706	A2	TP400	A1
IC201	C1	IC900	C26	Q951	B2	QR707	E26	TP501	A1
IC202	C1	IC950	B2	Q952	B2	QR708	E26	TP950	A1
IC203	B2	Q200	C1	Q953	B2	QR709	B26	VR300	A1
IC204	B1	Q201	C1	Q954	A2	QR710	B26	VR301	A1
IC205	B2	Q202	D2	Q955	A2	QR711	A2	VR400	F1
IC206	C26	Q203	D2	QR100	E26	QR712	A2	VR401	F1
IC207	C1	Q400	E2	QR200	C1	QR713	E26	VR600	F1
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IC209	C1	Q601	F26	QR202	C1	QR715	B1		



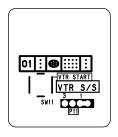
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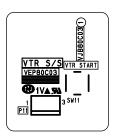
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IC301	D3	P507	C3	P520	A1	TP101	D2
IC302	В3	P508	A3	P521	B2	TP102	D3
IC600	E1	P509	A2	P522	B2	TP103	D3
P1	E1	P510	A1	Q700	B1	TP104	D3
P2	D1	P511	A1	Q703	A1	TP105	D3
P500	A2	P512	B1	TP2	D1	TP500	D3
P501	E1	P513	C1	TP3	D1	TP502	D3
P502	E2	P514	D3	TP4	E1	TP503	D3
P503	E2	P515	В3	TP5	E1	TP600	D3
P504	E3	P516	B1	TP6	E1	TP601	D3



VTR S/S C.B.A (VEP80C03A)

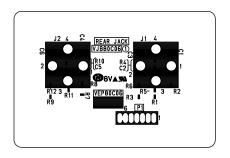




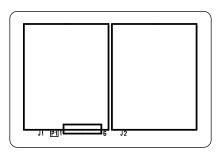


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REAR JACK C.B.A (VEP80C06A)

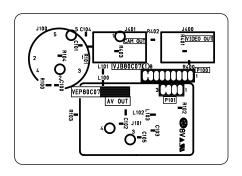


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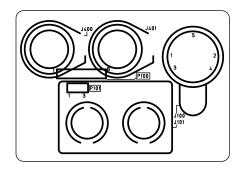


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AV OUT C.B.A (VEP80C07A)

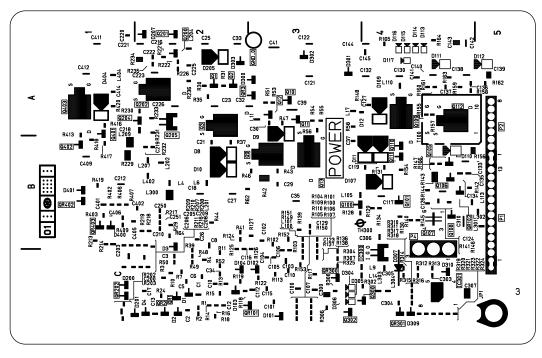


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(COMPONENT SIDE)

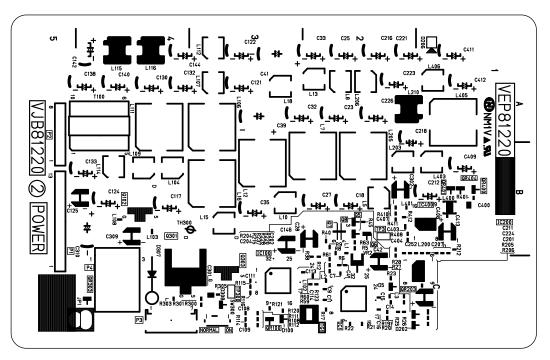
POWER C.B.A (VEP81220A)



IC300	C4
IC301	C4
Q1	C2
Q2	C2
Q3	C2
Q9	C3
Q10	C3
Q11	C3
Q12	C3
Q13	C3
Q100	C3
Q101	C4
Q105	C4
Q106	C4
Q107	C4
Q108	C4
Q109	C4
Q110	C4
Q111	C4
Q112	C4
Q200	C2
Q201	C2
Q202	C2
Q204	C2
Q205	C2
Q300	C4
Q302	C3
Q401	C1
Q402	C1 C1
Q403	C1
QR1	C2
QR2	C2
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QR202	C1
QR300	C3
QR301	C4
QR402	C1
QR403	C1

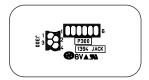
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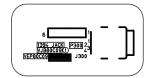
(FOIL SIDE)



REF	LOC
IC1	C2
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IC200	C1
IC400	B1
P1	C5
P2	B5
P3	C4
P4	C4
Q5	B2
Q6	B2
Q7	B2
Q8	B2
Q102	B4
Q301	C4
Q303	C3
QR100	C3
QR203	C2
QR303	C4
QR400	B1
QR401	B1
QR404	B1
SW300	C3
TG1	C2
TP3	B2
TP300	C3

1394 JACK C.B.A (VEP80C09A)

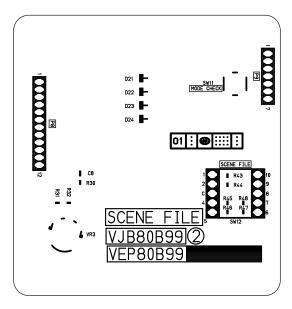




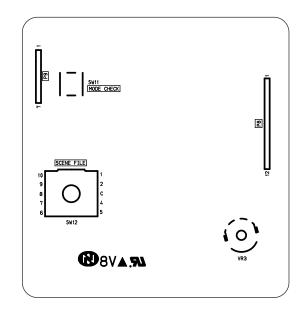
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(COMPONENT SIDE)

SCENE FILE C.B.A (VEP80B99A)

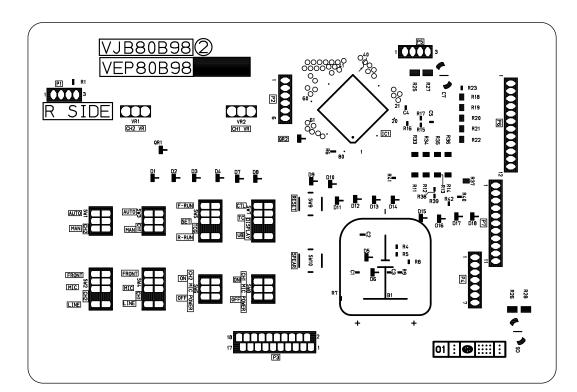






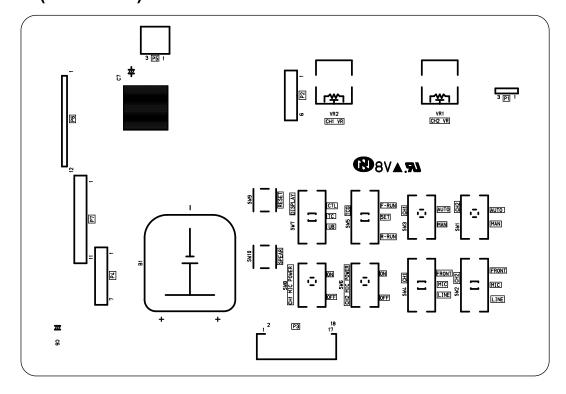
(COMPONENT SIDE)

R SIDE C.B.A (VEP80B98A)



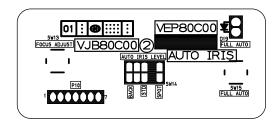
REF	LOC
IC1	F2
QR1	G2
QR2	F2

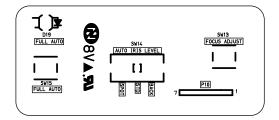
(FOIL SIDE)



REF	LOC
P1	H2
P2	F2
P3	F4
P4	E3
P5	E1
P6	D2
P7	D3
P8	D2
P9 P10	B1
P10	B1
P11	H1
P12	B4
SW1	H3
SW2	H3
SW3	G3
SW4	G3
SW5	G3
SW6	G3
SW7	F3
SW8	F3
SW9	F3
SW10	F3
SW11	B2
SW12	B3
SW13	A1
SW14	A2
SW15	A3
SW16	A4
VR1	H2
VR2	G2
VR3	D3

AUTO IRIS C.B.A (VEP80C00A)

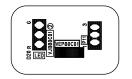


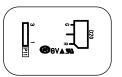


(FOIL SIDE)

(COMPONENT SIDE)

SCENE FILE C.B.A (VEP80B99A)

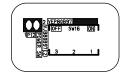


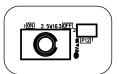


(FOIL SIDE)

(COMPONENT SIDE)

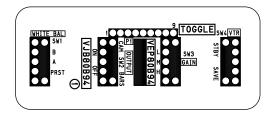
POWER SW C.B.A (VEP80B97A)

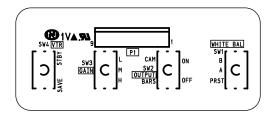




(FOIL SIDE)

TOGGLE SW C.B.A (VEP80B94A)

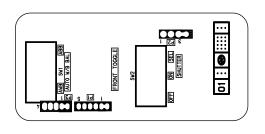


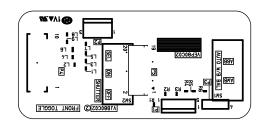


(FOIL SIDE)

(COMPONENT SIDE)

FRONT TOGGLE SW C.B.A (VEP80C02A)

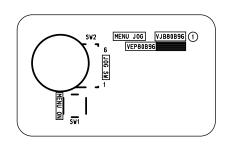


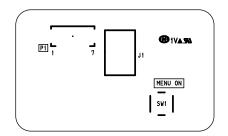


(FOIL SIDE)

(COMPONENT SIDE)

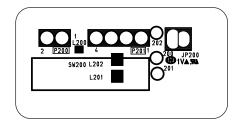
MENU JOG C.B.A (VEP80B96A)

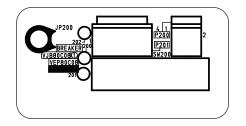




(FOIL SIDE)

BREAKER C.B.A (VEP80C08A)

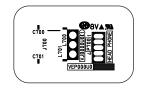


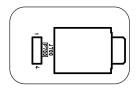


(FOIL SIDE)

(COMPONENT SIDE)

HEAD PHONE C.B.A (VEP000U0A)

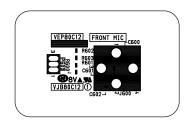


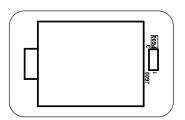


(FOIL SIDE)

(COMPONENT SIDE)

FRONT MIC C.B.A (VEP80C12A)





(FOIL SIDE)

SECTION 8

EXPLODED VIEWS REPLACEMENT PARTS LIST

Note:

- 1. *Be sure to make your orders of replacement parts according to this list.
- Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μF), P=μμF.
- 3. The P.C. Board untils marked with "

 " shown below the main assembled parts.
- 4. The parts marked with ©on the exploded view show the electric parts.
- IMPORTANT SAFETY NOTICE
 Components identified with the mark
 Δ have the special characteristics for safety. When replacing any of these components, use only the same type.
- The marking (RTL) indicates the retention time is limited for this item.After the diacontinuation of this assembly in production, it will no longer be available.

CONTENTS

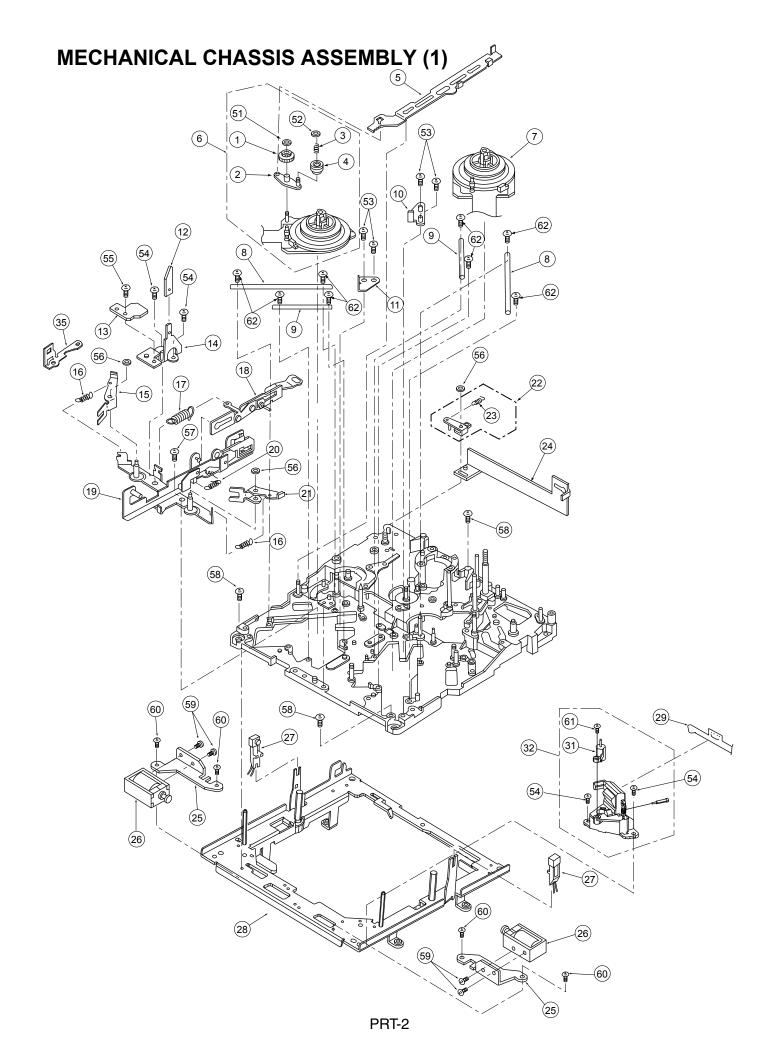
MECHANICAL CHASSIS ASSEMBLY (1)	PRT-1
MECHANICAL CHASSIS ASSEMBLY (2)	PRT-3
CHASSIS FRAME ASSEMBLY (1)	PRT-5
CHASSIS FRAME ASSEMBLY (2)	PRT-7
CASSETTE UP ASSEMBLY	PRT-9
PACKING PARTS ASSEMBLY	PRT-11
ELECTRICAL REPLACEMENT PARTS LIST	PRT-12

SERVICING FIXTURES & TOOLS

Ref.No	Part No.	PartName & Description	Pcs	Remarks	Ref.No	Part No.	Part Name & Description	Pcs	Kemarks
1	VFK1145A	BACK TENSION METER	1	(T2-M30-P)	19	VFK1147	PHILIPS DRIVER (FINE)	1	(0-100)
2	VFK1149A	POST DRIVER	1		20	VFK1148	HEX. DRIVER (1.5mm)	1	
3	VFK71A	DIAL TORQUE GAUGE	1	(1.5CN.m)150g	21	VFK1178	HEX. DRIVER (0.89mm)	1	
4	VFK1191A	DIAL TORQUE GAUGE	1	(0.45CN.m)45g	22	VFK1179	HEX. DRIVER (0.71mm)	1	
5	VFK1152	DIAL TORQUE GAUGE ADAPTOR	1		23	VFK1190	HEX. WRENCH	1	
6	VFK0357	ECCENTRIC SCREWDRIVER	1	(1.5mm)NEW	24	VFK1209A	TOQUE DRIVER (0.4-3Kg)	1	
7	VFK1692	POST HEIGHT FIXTURE	1		25	VFK0912	POST AXIS DRIVER (1.5mm)	1	
8	VFK1348	MECHANICAL NEUTRAL PLATE	1	(POST HEIGHT)L Cassette	26	VFK1300	A/D CONVERTER PAQ-12	1	(QUATECH)
9	VFK1155	MEUTRAL POSITION TOOL	1	(GOLD)	27	VFM3010EDL	ALIGNMENT TAPE (LISTA)	1	NEW
10	VFK1156	NEUTRAL POSITION TOOL	1	(BLACK)	28	VFM3000EDL	ALIGNMENT TAPE	1	(COLOR BAR)NEW
11	VFK1208	NEUTRAL POSITION TOOL	1	(BLACK w/HOLE)	29	AJ-CL12LP	CLEANING TAPE	1	SALES
12	VFK1150	NUT DRIVER (5.5mm)	1		30	VFK1481C	LISTA SOFTWARE	1	NEW
13	VFK1151	NUT DRIVER (2.5mm)	1		31	VFK1186	LISTA CABLE	1	
14	VFK1188A	DIAL TENSION GAUGE	1	(300mN)30g	32	VFK1409S	MEASURING BOARD	1	
15	VFK0948A	CHECK LIGHT	1						
16	VFK0749	FROIRAL GREASE	1	(FOR PLASTIC)					
17	M0R265	MORYTONE GREASE	1	(FOR METAL)					
18	VFK1146	PHILIPS DRIVER (FINE)	1	(00-75)					

MECHANICAL CHASSIS ASSEMBLY (1)

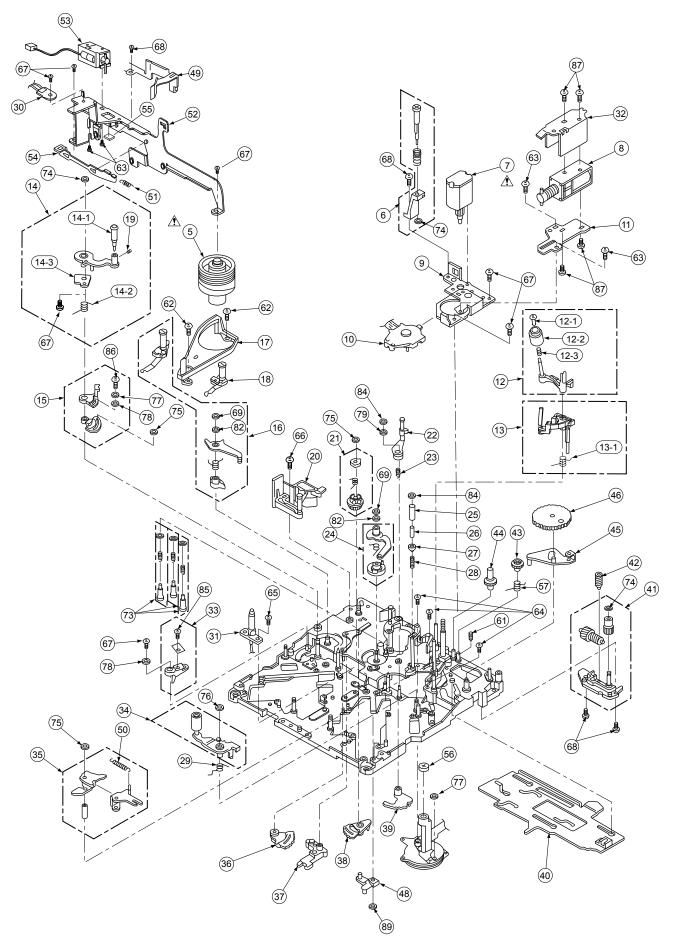
	,	CAL CHAS	\sim	107	
Ref.No.	Part No.	Part Name & Description	Pcs	s	Remarks
1	V/DC4400	IDLER GEAR A	1		
2	VDG1189 VXL2614	IDLER GEAR A IDLER ARM ASS'Y	1	`\	
	VMB3011	IDLER SPRING	1	1	
	VXP1700	IDLER GEAR ASS'Y	1	1	
	VMM0422	E-E ROD	1	1	
	VEM0658	S REEL MOTOR ASS'Y	-	1 (M) 1 (M)	
3	VEM0659 VMS5923	T REEL MOTOR ASS'Y REEL OUTER RAIL	2		
9	VMS5924	REEL INNER RAIL	2		
10	VMA9727	REEL TABLE STOPPER (T)	1		
11	VMA0G63	REEL TABLE STOPPER (S)	1	1	
12	VMD2588	BRAKE RELEASE	1		
13	VEK7694C	CASSETTE DOWN PHOTO ASS'Y	1	<u> </u>	
13-1	0N1004-R VMA9729	PHOTO COUPLER L CASSETTE LOCK RELEASE BASE	1	1	
15	VXL3062	S BRAKE ARM	1	1 (M)	
16	VMB3137	S BRAKE SPRING L	2		
17	VMB3139	SLIDE ROD SPRING	1	1	
18	VXL2754	SLIDE ROD	1		
19	VXA5892	BRAKE BASE	1	`	
20	VMB3168	LOCK SPRING	1		
21	VXL3063	T BRAKE ARM CONNECTION ARM B	1	1 (M)	
23	VXL2615C VMB2973	ARM RELEASE SPRING	1		
24	VXL2653C	CONNECTION ARM C	1		
25	VMA9387	SOLENOID BASE	2		
26	VSJ0216	S,T BRAKE SOLENOID	2		
27	VEK7692	SENSOR HOLDER ASS'Y	2	2	
28	VXK1661C	SUB CHASSIS	1	1	
29 31	VWJ1074 VSS0510	MIC FPC REC INHIBIT SWITCH	1	'	
32	VXA6873C	MIC BASE ASS'Y	1		
35	VMA9784	LOCK PIN GUIDE PLATE	1	`\	
			ĺ		
51	VMX1061	WASHER	1		
52	VMX2391	CUT WASHER	1		
53	XYN2+J5	SCREW SCREW	4		
54 55	XQN2+CF4 XQN2+A3	SCREW	1	1	
56	VMX0967	CUT WASHER	2	2	
57	XQN2+CF3	SCREW	11		
58	XTV3+6F	SCREW	3		
59	XQN2+A2	SCREW	4		
60	XYN2+K4	SCREW	4		
61	XQN2+CJ5	SCREW	1	1	
62	VHD0995	SCREW	8	3	
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MECHANICAL CHASSIS ASSEMBLY (2)

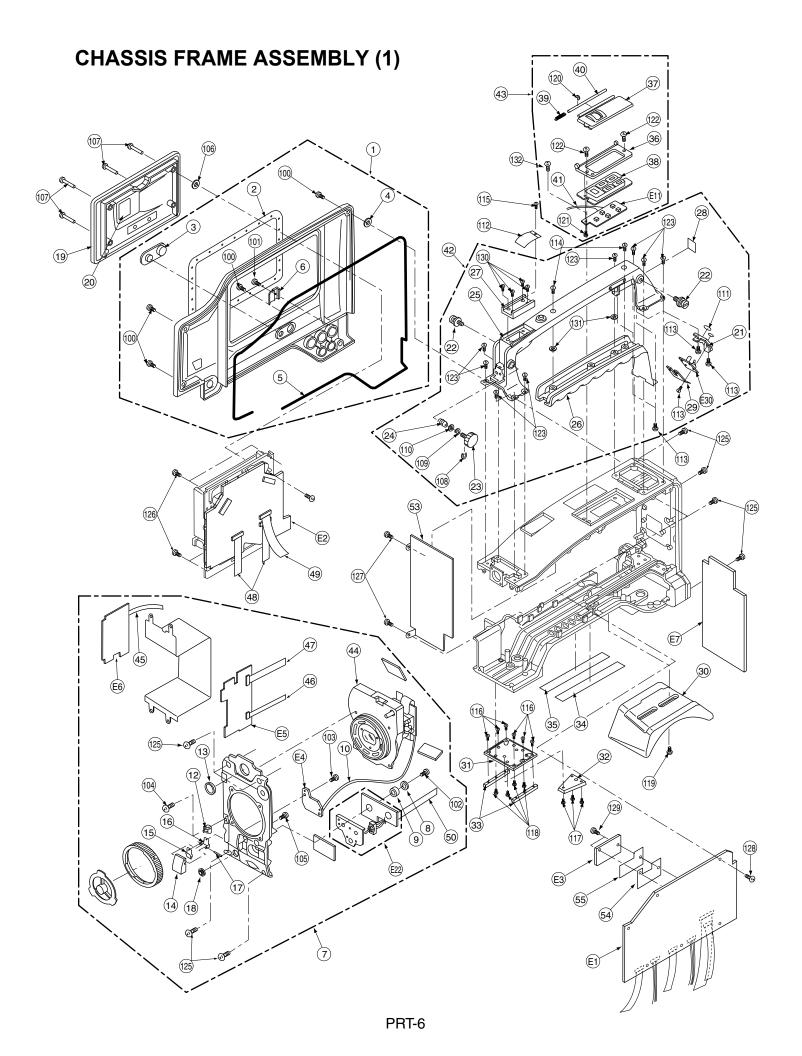
F 411	F	Bed No. 2 2 2 2 2	П	IS ASSEIVE	,		Berthe 2.5		
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs 2	Remarks
			L .		82	XWGV15Z32G	WASHER	_	
5	VEG1561	CYLINDER UNIT	1	(M)	84	VHN0312	NUT	2	
6	VXA5715C	SHAFT HOLDER ASS'	1		85	XQN2+AQ3.5FZ		1	
7	VEM0645C	LOADING MOTOR (1) ASS'Y	1		86	XQN2+AJ5	SCREW	1	
8	VSJ0227	PINCH SOLENOID	1		87	XQN2+A15	SCREW	4	
9	VXA5584C	MOTOR ANGLE ASS'Y	1		88	XQN2+A4	SCREW	1	
10	VES0918C	MODE SW ASS'Y	1	(M)	89	VMX0967	CUT WASHER	1	
11	VMA0A35	PINCH SOLENOID BASE	1		*	VXY1600	MECHANISM	1	
12	VXL3027C	CLEANING ARM ASS'Y	1	(M)					
12-1	VMX2150	CLEANER ROLLER HOLDER	1						
12-2	VXP2057C	CLEANER ROLLER ASS'Y	1						
12-3	VMB3114	CLEANER ROLLER SPRING	1						
13	VXL2870C	T2 ARM ASS'Y	1						
13-1	VMB3304	T2 ARM SPRING	1						
14	VXL2831	TENSION ARM A ASS'Y	1						
14-1		TENSION ROLLER	F.						
	VXP1761		1						
14-2	VMB3220	TENSION LEG SPRING	1						
14-3	VXA6173	MAGNET HOLDER ASS'Y	1						
15	VXA5791C	TENSION REG. SPRING HOOK	1						
16	VXL2709	S1 LOADING ARM ASS'Y	1						
17	VMD3731	LOADING RAIL	1						
18	VXA6378	T1 BOAT ASS'Y	1						
19	VHD0561	HEX SCREW	1						
20	VXA6052	S POST BASE A ASS'Y	1						
21	VXP1683C	T4 CONNECTION GEAR ASS'Y	1					l	
22	VXL2806	T4 ARM ASS'Y	1					Ì	
23	VMB2950	T4 THRUST SPRING	1			1			
24	VXL2952	T LOADING ARM ASS'Y	1						
29	VMB2933	PINCH RELEASE SPRING	1					1	
30	VEK7927	INSULLATION SENSOR	- 1	EYHS77Y7					
	1		'	ETHS//T/					
31	VEK7691	LED HOLDER ASS'Y	1						
32	VMA9411	PINCH SOLENOID ANGLE	1						
33	VXA5820C	TENSION SENSOR AS'Y	1						
34	VXL2835C	PINCH ARM ASS'Y	1						
35	VXL2588C	PINCH GUIDE ARM ASS'Y	1						
36	VXA5570C	T SECTOR GEAR ASS'Y	1						
37	VXL2838C	TENSION REG. GUIDE ARM	1						
38	VXA5567C	S SECTOR GEAR ASS'Y	1						
39	VXA5564C	T4 SECTOR GEAR ASS'Y	1						
40	VXA6348	MAIN ROD ASS'Y	1						
41	VXA5627C	THRUST SHAFT HOLDER ASS'Y	1						
42	VDG1166	MOTOR WARM GEAR	1						
43	VDG1443	EMARGENCY GEAR A	1						
44	VDG1444	MOTOR EMARGENCY GEAR B	1						
45	VXL2889C	MAIN CAM ARM ASS'Y	1						
46	VDG1168	MAIN CAM GEAR	- 1						
			H.						
48	VXL2600C	EJECT ARM ASS'Y	Ŀ						
49	VMD4130	T1 GUIDE ASS'Y	1						
50	VMB2934	SPRING	1						
51	VMB3051	CLEANER RETURN SPRING	1						
52	VXA6843C	CLEANER BASE A ASS'Y	1						
53	VXA6078C	CLEANER SOLENOID ASS'Y	1						
54	VMM0429	CLEANER INTERLOCK	1						
55	VMT0871	SILENCER A	_ 1			<u> </u>		L	
56	VXQ0556	THRUST SCREW ASS'Y	1	(M)					
57	VMB3192	E.E SPRING	1						
								l	
								Ī	
								<u> </u>	
61	VHD0356	SCREW	1					1	
62	XQN2+A3	SCREW	1					\vdash	
63	XQN2+A3 XQN2+A2	SCREW	1			1			
			3					\vdash	
64	XQN2+A35FZ	SCREW						-	
65	XQN2+AM2	SCREW	3		ļ				
66	XQN2+CM4	SCREW	1						
67	XQN2+CF3	SCREW	11						
68	XQN2+CF4	SCREW	1						
69	XUC12FP	E-RING	2					L	
73	VXQ0439	SCREW	3						
74	VMX0967	CUT WASHER	2						
75	VMX1061	WASHER	3						
76	VMX1079	CUT WASHER	1					<u> </u>	
77	XWA2B	WASHER	2					 	
78	+		-					-	
	XWE2	WASHER	1						
79	XWE16VW	WASHER	⊢ ¹		-			-	
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MECHANICAL CHASSIS ASSEMBLY (2)



CHASSIS FRAME ASSEMBLY (1)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
					114	XSB3+10FZ	SCREW	2	
1	VYP8107	SIDE CASE (L) ASS'Y	1		115	XSN2+4FC	SCREW	1	
2	VMG1316	CASSETTE WATERPROOF GUM	1		116	XTS26+6J	SCREW	6	
3	VMG1270	E.E CAP	1		117	XSB4+6FC	SCREW	3	
4	VMX1558	NYLON WASHER	4		118	XSS3+8FZ	SCREW	4	
5	VMG0832	SHIELD TUBE	1		119	XYN3+F8	SCREW	2	
6	VJF0804	CABLE CLAMPER	1		120	XUC12VM	E-RING	1	
7	VYK9834	FRONT CASE (1) ASS'Y	1		121	XYN26+K6	SCREW	18	
8	VMG0646	WATERPROOF SW INSULATION SHEET	2		122	XSN2+6FZ	SCREW	2	
9	VMT0738	SW INSULATION CUSHION	2		123	XSB3+8FZ	SCREW	8	
10	VEE0N28	VTR S/S CABLE	1		124	VHD0325	SCREW	2	
11	VGM1781	FRONT CASE	1		125	XSB3+8FZ	SCREW	8	
12	VJF1256	CABLE CLAMPER	2		126	XYN3+K6	SCREW	4	
13	VMG0948	EVF RUBBER SHIELD	1		127	XYN26+C6	SCREW	8	
14	VKF2485	FRONT DOOR	1		128	XYN26+F6FX	SCREW	4	
15	VMC1210	FRONT DOOR SPRING	1		129	XYN26+K5	SCREW	2	
16	VMP4850	FRONT DOOR ANGLE	1		130	XSS2+6FZ	SCREW	4	
17	VMS4088	FRONT DOOR ANGLE PIN	1		132	XTN2+4G	SCREW	1	
18	VGU6714	RUBBER BUSH KNOB	1		133	XTV2+4F	SCREW	8	
19	VGM1788	CASSETTE COVER	1						
20	VKW2800	CASSETTE WINDOW	1		L				
21	VGL0783	TALLY COVER	1						
22	VMS4284	BELT HOOK PIN	2		E1	VEP83551A	MAIN C.B.A.	1	
23	VGU7080	SIDE U LOCK KNOB	1		E2	VEP82237A	RF & SERVO C.B.A.	1	
24	VMB1615	SPRING	1		E3	VEP83548A	VTR SUB C.B.A.	1	
25	VKH0400	HANDLE	1		E4	VEP80C03A	VTR_S/S C.B.A.	1	
26	VKF3338	HANDLE COVER	1		E5	WE600PKY1A	PRE AMP C.B.A.	1	
27	VJF1421	SHU	1		E6	WE600PKF1B	DRIVE C.B.A.	1	
28	VMP6835	HANDLE SPACER	1		E7	VEP81220A	POWER C.B.A.	1	
29	VMP6780	TALLY C.B.A. HOLDER ANGLE	1		E11	VEP86149A	OPERATE C.B.A.	1	
30	VMT1198	SHOULDER PAD	1		E22	VEP80C02A	FRONT TOGGLE SW C.B.A.	1	
31	VGM1277	FRONT FOOT BASE	1		E30	VEP80A74B	BACK TALLY C.B.A.	1	
			1		E30	VEF60A74B	BACK TALLT C.B.A.	'	
32	VGM1278	FRONT V EDGE							
33	VKA0299	FRONT FOOK	2						
34	VKN0159	BOTTOM NET	1						
35	VMT1200	BOTTOM CUSHION	1						
36	VGK2304Z	VTR OPERATION BASE	1						
37	VKF2817Z	VTR OPERATION DOOR	1						
38	VGU8218	VTR OPERATION BUTTON	1						
39	VMB2917	DOOR SPRING	1						
40	VMS5860	DOOR SHAFT	1						
41	VEE0N17	OPERATE CABLE	1						
42	VYH0292	HANDLE ASS'Y	1						
43	VYP8110	TOP PLATE OPERATION ASS'Y	1						
44	VEQ2452	CAMERA ASS'Y	1						
45	VWJ21E5140L0	FLAT CABLE	1						
46	VWJ06E5100L0	FLAT CABLE	1						
47	VWJ16E5080L0	FLAT CABLE	1						
48	VWJ24E5075L0	FLAT CABLE	2						
49	VWJ40E5095L0	FLAT CABLE	1						
50	VWJ20E5100L0		1						
51	VWJ20E5120L0	FLAT CABLE	1						
52	VJF0456	BINDER	2						
53	VGF0891	BLIND PLATE	1						
54	VSC5265	VTR-SUB SHIELD PLATE	1						
55	VMZ3180	VTR-SUB INSULATION SHEET	1			1			
57	VGQ6174	BUTTON SUPPORTER	3			1			
58	VSC5244	JACK ELECTROSTATIC ANGLE	1			1			
			Ť			1			
100	XSB3+10FZ	SCREW	4			+			
100	XSB3+10FZ XSB2+4FZ	SCREW	1			+			
	XYN3+C6	SCREW	3		-	1			
102			-		-	1			
103	XYN3+K6	SCREW	2		<u> </u>	1			
104	XSB2+4FZ	SCREW	2		<u> </u>	+			
105	XYN2+C4	SCREW	1			1			
106	VMX2605	WASHER	4			1			
107	XSB26+16FZ	SCREW	4						
108	XUC3FP	E-RING	1						
109	XWA4BFZ	WASHER	1		L				
110	XWE4FZ	WASHER	1						
111	VMG0956	P8 O-RING	1						
112	VMC1697	SPRING	1			1			
113	XYN2+F5	SCREW	7			1			
			<u> </u>		—	1			
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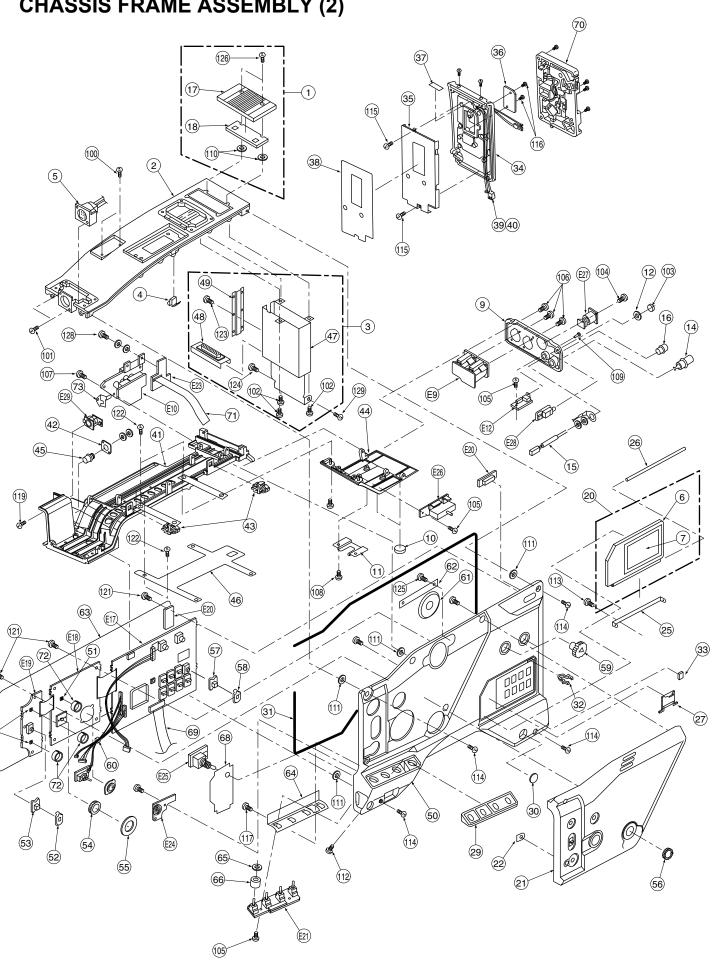


CHASSIS FRAME ASSEMBLY (2)

107 XYN3+C6 SCREW 2		<u> </u>	FRAIVIE AS	J	PLINIDE	<u> (4)</u>					
1	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks		Ref.No.	Part No.	Part Name & Description	Pc	s Remarks
VOLANISE DOT-ORSP							107	XYN3+C6	SCREW		2
NAMES ORDITOR ROX ASSY 1	1	VYF2757	RECEIVER COVER ASS'Y	1			108	XSB3+6FZ	SCREW	:	2
A	2	VGM1782	TOP CASE	1			109	XQN16+B4FZ	SCREW		1
VERNING	3	VXA6994	RECEIVER BOX ASS'Y	1			111	VMX1558	NYLON WASHER	,	1
OM/TISS OM/CORE 1	4	VJF0909	CABLE CLAMPER	1			112	XTV3+6GFZ	SCREW		5
MODOSA	5	VEE0N18	VE CABLE	1			113	XYN26+C4	SCREW		2
11 MINISTON MARCHER 1 1 1 1 1 1 1 1 1	9	VGM1785	JACK CASE	1			114	XSB3+10FZ	SCREW		1
MACCESS DATTON SPACER 1	10	VMG0954	REAR FOOT	2			115	XYN26+C4	SCREW	-	2
M. M. M. M. M. M. M. M.	11	VMP6370	BACK LOCK ANGLE	1			116	XSB3+4FZ	SCREW		2
MEDITAT GLOCK CABLE 1	12	VMX0531	CLATCH SPACER	1			117	XSS2+6FZ	SCREW		4
19	14	VJJ0091	BNC JACK	1			119	XSN26+8FZ	SCREW		4
19	15	VEE0N27	GELOCK CABLE	1			120	XSB3+8FZ	SCREW		2
19	16	VEE0N26	DC OUT CABLE	1			121	XSN3+6FZ	SCREW	:	2
190 VIGHTRP SOC CARE_FID 1 124 XTAP-4G SCREW 3 3 1 1 1 1 1 1 1 1	17	VGF0885	RECEIVER COVER	1			122	VHD0325	SCREW	:	2
100 WY27299 OPERATION DOOR ASSYY 1	18	VMG1378	WATERPROOF RUBBER	1			123	XYN26+C4	SCREW		1
21 WATTIND PACE PAD 1	19	VGM1787	SIDE CASE (R)	1			124	XTN2+4G	SCREW		3
22 VOLD04 LED SPRIND LIGHT 1 128 VIN-1024 SPREW 2 2 VIN-1029 OPERATION BUTTON 2 2 VIN-1029 OPERATION BUTTON 2 2 VIN-1029 OPERATION BUTTON 2 VIN-1029 OPERATION DOOR SHAPT 1 VIN-1029 OPERATION DOOR SHAPT OPERATION DOOR S				1			125			:	2
24	21	VMT1199	FACE PAD	1			126	XSB3+8FZ	SCREW	:	2
26				1						:	2 K1YE25000007
							129	XYN26+C6	SCREW	:	2
WISSED OPERATION DOOR SHAFT 0			` '	2							
27 VPKSSA06 BATTERY HILDER DOOR 1				1						-	
MODINS MARCER CAP				1			L			\perp	
34				-						+	1
SACK CASE				-						+	1
35										+	
98				1							1
33				1				!		-	
38				1						-	
Section Sect				1						-	1
40 VERDMIR ANTON CABLE 1				1							1
41				1							1
42				1						+	1
43				1							1
Mathematics								!		+	
46										-	
46				-				!		+	
47 VMP6776 RECEUVER BOX (A) 1 1 48 VMP6777 RECEUVER BOX (B) 1 1 49 VMP6778 RECEUVER BOX (C) 1 1 50 VYP6106 SIDE CASE (R) 1 ASSY 1 51 VGU7081 OPERATION BUTTON 3 52 VGU8843 IRIS LEVEL KNOB B 1 1 53 VMG1379 IRIS LEVEL KNOB RUBBER 1 54 VGU8844 SCEN FILE KNOB RUBBER 1 55 VMG1380 SCENE FILE KNOB RUBBER 1 56 VGU7077 VR KONB A 1 57 VGU7688 SLIDE SW OCVER 6 58 VGL0.39 SLIDE SW OCVER 8 59 VGU6512 VR KNOB 2 2 60 VMF3322 CODE CLAMPER 1 61 VEKS283 SPEAKER ASSY 1 62 VF1158 CLAMPER 1 63 VMZ3134 INSULATION SHEET 1 64 VGC5509 SIDE R RASTH ANGLE 1 65 VMG0846 MATERPROF SW INSULATION SHEET 4 66 VMT0738 SW INSULATION SHEET 1 67 VGU768 SULDE SW SHIDE SW OCVER 1 68 VGL2514 NSULATION SHEET 1 69 VGU5512 VR KNOB 2 71 VF158 CLAMPER 1 72 VGC5503 SIDE R RASTH ANGLE 1 73 VMG2184 NSULATION SHEET 1 74 VGC5504 SIDE R RASTH ANGLE 1 75 VGC5505 SIDE R RASTH ANGLE 1 76 VGC5506 SIDE R RASTH ANGLE 1 77 VGC5506 SIDE R RASTH ANGLE 1 78 VGC5507 SIDE RASTH ANGLE 1 79 VGC5508 SIDE RASTH ANGLE 1 70 VGT538 SW INSULATION SHEET 1 71 VGC5509 SIDE RASTH ANGLE 1 72 VGC5273 SHIELD ANGLE 1 73 VGC567 SIRE RASTH ANGLE 1 74 VGC567 SIRE RASTH ANGLE 1 75 VGC567 SIRE RASTH ANGLE 1 76 VGC567 SIRE RASTH ANGLE 1 77 VGC567 SIRE RASTH ANGLE 1 78 VGC567 SIRE RASTH ANGLE 1 79 VGC567 SIRE RASTH ANGLE 1 70 VGT538 SW INSULATION SHEET 1 71 VGC567 SIRE RASTH ANGLE 1 72 VGC567 SHIELD ANGLE 1 73 VGC567 SIRE RASTH ANGLE 1 74 VGC567 SIRE RASTH ANGLE 1 75 VGC567 SHIELD ANGLE 1 76 VGC567 SHIELD ANGLE 1 77 VGC567 SHIELD ANGLE 1 78 VGC567 SHIELD ANGLE 1 79 VGC567 SHIELD ANGLE 1 70 VGT547 SHIELD ANGLE 1 71 VGC567 SIRE SHIELD ANGLE 1 71 VGC567 SIRE SHIELD ANGLE 1 72 VGC567 SHIELD ANGLE 1 73 VGC567 SIRE SHIELD ANGLE 1 74 VGC567 SIRE SHIELD ANGLE 1 75 VGC567 SHIELD ANGLE 1 76 VGC567 SHIELD ANGLE 1 77 VGC567 SHIELD ANGLE 1 78 VGC567 SHIELD ANGLE 1 79 VGC567 SHIELD ANGLE 1 70 VGC567 SHIELD ANGLE 1 71 VGC567 SHIELD ANGLE 1 71 VGC567 SHIELD ANGLE 1 72 VGC567 SHIELD ANGLE 1 74 VGC567 SHIELD ANGLE 1 75 VGC567 SHIELD ANGLE 1 76 VGC567 SHIELD ANGLE 1 77 VGC567 SHIELD ANGLE 1 78 VGC567 SHIELD ANGLE 1				-			E29	VEP60C12A	FRONT MIC C.B.A.	+	ı
48				- '						+	
49				1						+	
50				1						+	
51				1						+	
S2			, ,	2						+	
53 VMG1379				-						+	
54				1						+	
55										+	
56				<u> </u>			-			-	
57 VGU7688 SLIDE SW COVER				1			-			-	
58				8						+	
59				_						+	
60 VMP3332 CODE CLAMPER 1							—			+	
61 VEK9293 SPEAKER ASSY 1 1 62 VJF1158 CLAMPER 1 1 63 VMZ3134 INSULATION SHEET 1 1 65 VMG0646 WATERPROF SWINSULATION SHEET 4 66 VMT0738 SWINSULATION SHEET 1 1 68 VMZ3168 POWER_SWINSULATION SHEET 1 1 69 VWJ18C2140L0 FLAT CABLE 1 1 70 VJF1347 ANTON BATTERY ADAPTOR 1 71 VWJ20E5120L0 FLAT CABLE 1 1 72 VSC5273 SHIELD ANGLE 1 1 72 VSC5273 SHIELD ANGLE 1 1 72 VSC5274 SCREW 2 1 100 XSB4+4FZ SCREW 2 1 101 XSS2+4FZ SCREW 2 1 102 XYN3+K6 SCREW 3 3 1 104 XSN26+6FC SCREW 2 1 105 XYN26+K6 SCREW 2 1 104 XSN26+6FC SCREW 2 1 105 XYN26+K6 SCREW 3 3 1 105 XYN26+K6 SCREW 3 3 1 105 XYN26+K6 SCREW 3 3 1 107 XSD4+K6 SCREW 2 1 105 XYN26+K6 SCREW 3 3 1 107 XSD4+K6 SCREW 3 3 1 107 XSD4+K6 SCREW 3 3 1 107 XSN26+K6 SCREW 2 1 107 XSN26+K6 SCREW 3 3 107 XSN26+K6 SCREW 3 107				1						+	
62 VJF1158 CLAMPER				1					1	1	
63				1					<u> </u>	1	
64				1						1	
65				1						+	+
66				4					1	1	
68 VMZ3168 POWER_SWINSULATION SHEET 1				4						1	
69 VWJ18C2140L0 FLAT CABLE 1				1						1	
70			_	1						╅	
71 VWJ20E5120L0 FLAT CABLE 1				1						1	
72 VSC5273 SHIELD ANGLE 1 1 1 1 1 1				1						1	
101 XSS2+4FZ SCREW 2 102 XYN3+K6 SCREW 3 103 VHN0194 SPACER 1 104 XSN26+6FC SCREW 2 105 XYN26+K6 SCREW 3			SHIELD ANGLE	1						T	
101 XSS2+4FZ SCREW 2 102 XYN3+K6 SCREW 3 103 VHN0194 SPACER 1 104 XSN26+6FC SCREW 2 105 XYN26+K6 SCREW 3				П						1	
101 XSS2+4FZ SCREW 2 102 XYN3+K6 SCREW 3 103 VHN0194 SPACER 1 104 XSN26+6FC SCREW 2 105 XYN26+K6 SCREW 3				П						1	
101				П						1	
102 XYN3+K6 SCREW 3 103 VHN0194 SPACER 1 104 XSN26+6FC SCREW 2 105 XYN26+K6 SCREW 3	100	XSB4+4FZ	SCREW	2						T	
103 VHN0194 SPACER 1	101	XSS2+4FZ	SCREW	2						1	
104 XSN26+6FC SCREW 2 105 XYN26+K6 SCREW 3				3						1	
105 XYN26+K6 SCREW 3				1						1	
105 XYN26+K6 SCREW 3				2						1	
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CHASSIS FRAME ASSEMBLY (2)

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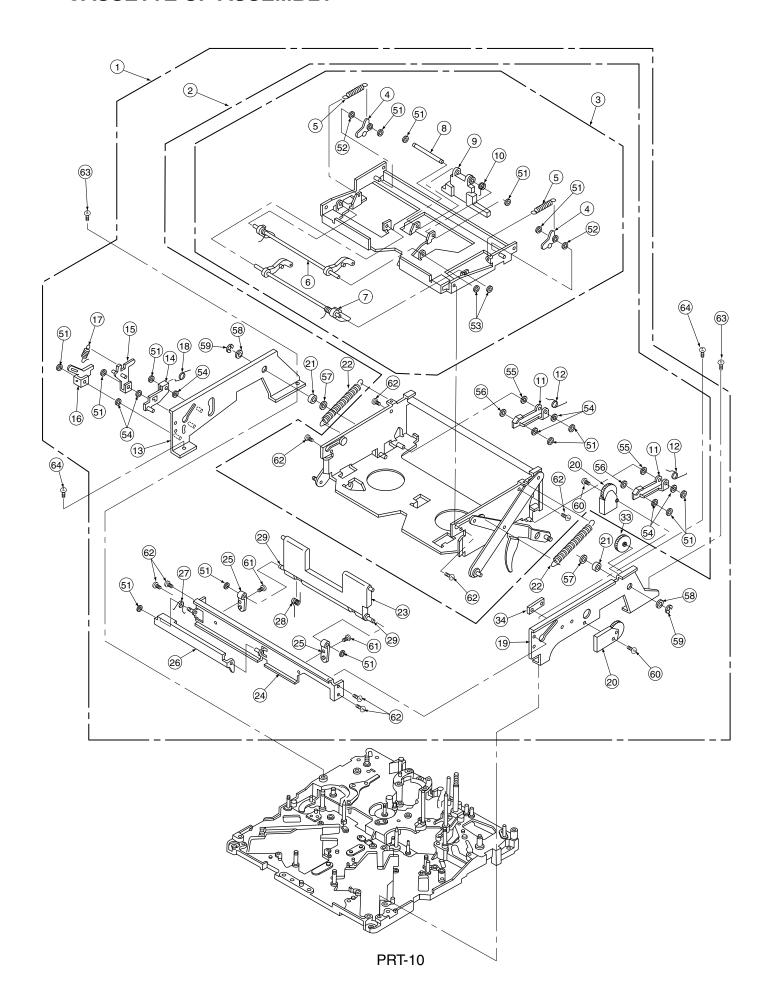


PRT-8

CASSETTE UP ASSEMBLY

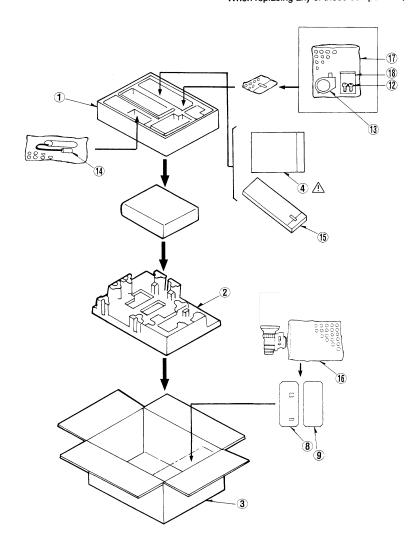
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA6871	CASSETTE UP ASS'Y	1						
2	VXA6879	HOLDER	1						
3	VXA6882	TOP PLATE	1						
4	VXL2696	PRESSURE LEVER	2						
5	VMB3063	PRESSURE LEVER SPRING	2						
6	VXA5896	PROTECTOR SHAFT (2) L	1						
7	VXA5897	PROTECTOR SHAFT (2) R	1						
8	VMS6198	PROTECTOR SHAFT	1						
9	VMD2789	PROTECTOR SHAFT (1)	1						
10	VMB3135	SHAFT RELESE SPRING	1						
11	VML3259	RELEASE LEVER	2						
12	VMB3140	LOCK RELEASE LEVER SPRING	2						
13	VXA6885	SIDE PLATE (L)	1						
14	VXL3050	RATCHET ARM	1						
15	VXL3060	RATCHET LOCK LEVER	1						
16	VXL3052	RATCHET LEVER	1						
17	VMB2981	RATCHET SPRING	1						
18	VMB3146	LOCK LEVER SPRING	1						
19	VXA6886	SIDE PLATE (R)	1						
20	VDG0387	DUMPER	1					-	
			2						
21	VDP0967	MAIN ARM ROLLER	2						
22	VMB3133	UP SPRING	2		ļ				
23	VXA6853	PROTECTOR PLATE	1					<u> </u>	
24	VXA5898	BACK PLATE	1						
25	VMD2793	SHAFT	2						
26	VML3555	RATCHET TIMING LEVER	1						
27	VMB2982	SPRING	1						
28	VMB3134	PLATE RELEASE SPRING	1						
29	VMS6211	PROTECTOR PLATE SHAFT	1					Ĺ	
33	VDG1456	DUMPER GEAR	1						
34	VMD0997	HOLDER GUIDE	1						
51	VMX0967	CUT WASHER	14						
52	XWGV2D5G	WASHER	2						
53	VMX1079	CUT WASHER	2						
54	XWGV2Y5G	WASHER	7						
55	XWGV2Z5G	WASHER	2						
			2						
56	XWGV4Y9G	WASHER	2						
57	XWGV4Y8G	WASHER							
58	XWGV3Y8G	WASHER	2						
59	XUC2FP	E-RING	2						
60	XYN2+J5	SCREW	1						
61	XQN2+A3	SCREW	2						
62	VHD1323	SCREW	4						
63	XQN2+CF3	SCREW	2						
64	XYN2+C4	SCREW	2						
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CASSETTE UP ASSEMBLY



PACKING PARTS ASSEMBLY

Components identified with the mark \triangle have the special characteristics for safety. When replacing any of these components, use only the same type.



PACKING PARTS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPN5551	CUSHION (UPPER)	1						
2	VPN5552	CUSHION (LOWER)	1						
3	VPG0J71	PACKING CASE	_	FOR AG-DVC200P					
3	VPG0K66	PACKING CASE	1	FOR AG-DVC200DP					
3	VPG0K68	PACKING CASE	1	FOR AG-DVC200LP					
4	VQT9277	OPERATING INSTRUCTIONS	1						
5	VPF0724	POLYETHYLENE BAG	1						
8	VPN5565	CUSHION (UPPER)	1	FOR AG-DVC200LP					
8	VPN5567	CUSHION (UPPER)	1	FOR AG-DVC200DP					
9	VPN5566	CUSHION (LOWER)	1	FOR AG-DVC200LP					
9	VPN5568	CUSHION (LOWER)	1	FOR AG-DVC200DP					
12	XSB4+12FXKS	SCREW	2						
13	VYC0814	MIC HOLDER	1						
14	VSQ1187	MIC	1						
15	VYC0853	TRIPOD ADAPTOR	1						
16	VPF0531	POLYETHYLENE BAG	1	FOR AG-DVC200DP					
17	VPF0890	POLYETHYLENE BAG	1						
18	VPF1016	POLYETHYLENE BAG	1						
	1								

ELECTRICAL REPLACEMENT PARTS LIST

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks		Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
- 54	VED02554A	MAIN CD A	_	(DTL)		= 54	VED02554A	MAIN C D A	_	(DTL)
■ E1	VEP83551A VEP000L8A	MAIN C.B.A. 8P BUF SUB C.B.A.	-	(RTL) (RTL)FOR VEP83551A		■ E1	VEP83551A VEP000L8A	MAIN C.B.A. 8P BUF SUB C.B.A.	-	(RTL) (RTL)FOR VEP83551A
-	VLI OUOLOA	or bor oob c.b.A.	Ľ	(ICTE)I OIC VEI 0000 IA		-	VEI GOOLOA	or Bot GOD C.B.A.	<u> </u>	(ICTE)I OIC VEI 0000 IA
■ E2	VEP82237A	RF & SERVO C.B.A.	1	(RTL)						
	VEP80C23A	SERVO SUB C.B.A.	1	(RTL)FOR VEP82237A		C1	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP000L8A
						C50,51	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
■ E3	VEP83548A	VTR SUB C.B.A.	1	(RTL)		C3001	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
						C3004-07	F1J1A1050021	C.CAPACITOR CH 10V 1U	4	
■ E4	VEP80C03A	VTR S/S C.B.A.	1	(RTL)		C3009,10	F1J1A1050021	C.CAPACITOR CH 10V 1U	2	
■ E5	VEP83564A	PRE AMP C.B.A.	1	(RTL)		C3011 C3012	ECST1CX106Z ECUX1E104ZFV	T.CAPACITOR CH 16V 10U C.CAPACITOR CH 25V 0.1U	1	
■ L3	VEI 03304A	I ILL AIVII C.D.A.	H	(IXIL)		C3012	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	2	
■ E6	WE600PKF1B	DRIVE C.B.A.	1	(RTL)		C3015,16	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	2	
						C3017,18	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
■ E7	VEP81220A	POWER C.B.A.	1	(RTL)		C3019,20	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	2	
_						C3021,22	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	2	
■ E8	WE600PKY1A	PRE AMP SUB C.B.A.	1	(RTL)		C3026,27	EEVHP1A100	E.CAPACITOR 10V 10U	2	
= E0	VEDROCOER	DEAD JACK C D A	1	(DTL)		C3028 C3030	F1J1A1050021	C.CAPACITOR CH 10V 1U C.CAPACITOR CH 50V 47P	1	
■ E9	VEP80C06B	REAR JACK C.B.A.	-	(RTL)		C3030	ECUX1H470JCV F1J0J475A006	C.CAPACITOR CH 50V 47P C.CAPACITOR CH6.3V 1U	1	
■ E10	VEP80C07A	AV OUT C.B.A.	1	(RTL)		C3034-36	EEVHB0J330	E.CAPACITOR 6.3V 33U	3	
		2 = 1 = 1 = 1 = 1	Ħ	· -/		C3037	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	F1H1H100A735
■ E11	VEP86149A	OPERATE C.B.A.	1	(RTL)		C3038	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
						C3040-42	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	3	
■ E12	VEP80C09A	1394 JACK C.B.A.	1	(RTL)		C3043-48	F1J1A1050021	C.CAPACITOR CH 10V 1U	6	
						C3052-54	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3	
■ E13	WE600PKB1B	SENSOR (R) C.B.A.	1	(RTL)		C3058-63	F1J1A1050021	C.CAPACITOR CH 10V 1U	6	
= 544	MESSON DIVOLA	05N00D (0) 0 D A		(DTL)		C3064-66	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
E14	WE600PKC1A	SENSOR (G) C.B.A.	1	(RTL)		C3067-84	ECUX1H104KBV ECUX1E104ZFV	C.CAPACITOR CH 50V 0.1U C.CAPACITOR CH 25V 0.1U	18	
■ E15	WE600PKD1A	SENSOR (B) C.B.A.	1	(RTL)		C3085-89 C3090	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
	1120001112111	02.10011 (8) 0.231.	H	(***2)		C3091-93	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
■ E16	WE600PKE1B	P AMP C.B.A.	1	(RTL)		C3301	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
						C3302	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1	
■ E17	VEP80B98A	R SIDE C.B.A.	1	(RTL)		C3303	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
						C3304	ECUX1H105KBV	C.CAPACITOR CH 50V 1U	1	
■ E18	VEP80B99A	SCERNE FILE C.B.A.	1	(RTL)		C3305	F1J0J475A006	C.CAPACITOR CH6.3V 1U	1	
						C3306-10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
■ E19	VEP80C00A	AUTO IRIS C.B.A.	1	(RTL)		C3311,12	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	2	
■ E20	VEP80C01A	LED C.B.A.	1	(RTL)		C3313 C3314	ECUX1H103KBV EEVHB1C100	C.CAPACITOR CH 50V 0.01U E.CAPACITOR 16V 10U	1	
	VE1 0000174	CED G.D.A.	Ľ	(KTL)		C3315	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
■ E21	VEP80B94A	TOGGLE SW C.B.A.	1	(RTL)		C3316	EEVHB1C100	E.CAPACITOR 16V 10U	1	
						C3317,18	EEVHB0J220	E.CAPACITOR 6.3V 22U	2	
■ E22	VEP80C02A	FRONT TOGGLE SW C.B.A.	1	(RTL)		C3319	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
						C3321	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
E23	VEP80C20A	REMOTE MAINTENANCE C.B.A.	1	(RTL)		C3322	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
- F04	\((ED00D00A	MENIL IOO O D A		(DTL)		C3323	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
E24	VEP80B96A	MENU JOG C.B.A.	1	(RTL)		C3324 C3325.26	EEVHB0J330 EEVHB1C100	E.CAPACITOR 6.3V 33U E.CAPACITOR 16V 10U	2	
E25	VEP80B97A	POWER SW C.B.A.	1	(RTL)		C3325,20	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
			H	· ·-/		C3328,29	ECUX1F104ZFV	C.CAPACITOR CH 25V 0.1U	2	
■ E26	VEP80C08A	BREAKER C.B.A.	1	(RTL)		C3330	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
						C3331	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
E27	VEP00X87D	DC INPUT C.B.A.	1	(RTL)		C3332	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
						C3333	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
■ E28	VEP000U0A	HEAD PHONE C.B.A.	1	(RTL)		C3334,35	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
■ E29	VEP80C12A	FRONT MIC C.B.A.	1	(RTL)		C3336,37 C3338,39	EEVHB0J220 ECUX1H103ZFV	E.CAPACITOR 6.3V 22U C.CAPACITOR CH 50V 0.01U	2	
E29	VEFOUCIZA	I NONT WILL C.B.A.	+ 1	(IXIL)		C3338,39 C3340,41	ECUX1H103ZFV ECUX1E104ZFV	C.CAPACITOR CH 50V 0.010 C.CAPACITOR CH 25V 0.1U	2	
■ E30	VEP80A74B	BACK TALLY C.B.A.	1	(RTL)		C3340,41	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
				,		C3343,44	F1J1A1050021	C.CAPACITOR CH 10V 1U	2	
						C3357	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	1	
						C3358	ECUX1H105KBV	C.CAPACITOR CH 50V 1U	1	
-						C3359	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
						C3370,71	F1J1A1050021	C.CAPACITOR CH 10V 1U	2	
						C3401	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
			\vdash			C3402	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
			H			C3403 C3404	ECUX1H050CCV ECUM1C474KBN	C.CAPACITOR CH 50V 5P C.CAPACITOR CH 16V 0.47U	1	
			H			C3404 C3406	ECST1AY106Z	T.CAPACITOR CH 16V 0.470	1	
			H			C3400	ECUX1A105KBV	C.CAPACITOR CH 10V 100	1	
						C3408,09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
						C3410	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
			L^{T}						L^{-}	

Ref.No. C3411-16 C3500-02 C3601 C3602	Part No. ECUX1E104ZFV ECUX1E104ZFV	Part Name & Description C.CAPACITOR CH 25V 0.1U C.CAPACITOR CH 25V 0.1U	Pcs 6	Remarks	Ref.No. C4205	Part No. ECUX1E104ZFV	Part Name & Description C.CAPACITOR CH 25V 0.1U	Pc	s Remarks
C3500-02 C3601					C4205				
C3601	ECUX1E104ZFV							+	
	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1		C4206 C4207,08	ECUX1H222KBV EEVHB0G470	C.CAPACITOR CH 50V 2200P E.CAPACITOR 4V 47U	+ :	1
	ECUX1H101JCV	C.CAPACITOR CH 25V 0.10 C.CAPACITOR CH 50V 100P	1		C4207,08 C4209	EEVHB0J220	E.CAPACITOR 4V 470	1	1
C3603	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1		C4210	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	١.	1
C3604	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1		C4211	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	٠	1
C3605	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1		C4212	EEVHB0G470	E.CAPACITOR 4V 47U		1
C3606	F1J0J475A006	C.CAPACITOR CH6.3V 1U	1		C4213	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	,	1
C3607	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1		C4214,15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	2
C3608	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1		C4216	EEVHB0J220	E.CAPACITOR 6.3V 22U	1	1
C3609 C3610,11	ECUX1A105KBV ECUX1C104KBV	C.CAPACITOR CH 10V 1U C.CAPACITOR CH 16V 0.1U	1		C4217,18 C4219,20	ECUX1H151JCV ECUX1E104ZFV	C.CAPACITOR CH 50V 150P C.CAPACITOR CH 25V 0.1U	1	
C3613	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1		C4219,20	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	-	1
C3614-17	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4		C4222	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	٠	1
C3618,19	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2		C4223	EEVHB0J220	E.CAPACITOR 6.3V 22U	٠	1
C3620	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1		C4224,25	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	2	2
C3621	F1J0J475A006	C.CAPACITOR CH6.3V 1U	1		C4226,27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	2
C3622	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1		C4228	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P		1
C3623,24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U C.CAPACITOR CH6.3V 1U	1		C4229 C4230-32	ECUX1H221JCV ECUX1E104ZFV	C.CAPACITOR CH 50V 220P C.CAPACITOR CH 25V 0.1U	1	
C3625 C3626	F1J0J475A006 ECUX1E104ZFV	C.CAPACITOR CH6.5V 0.1U	1		C4230-32 C4233,34	EEVHB0J330	E.CAPACITOR 6.3V 33U	-	1
C3627	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1		C4235,34	EEVHB03330	E.CAPACITOR 0.3V 330	+	1
C3628	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1		C4236	EEVHB0J330	E.CAPACITOR 6.3V 33U	t	1
C3702	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1		C4237,38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	2
C3703	ECUM1C224KBN		1		C4239	EEVHB0J330	E.CAPACITOR 6.3V 33U		1
C3704	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1		C4240,41	EEVHB0J220	E.CAPACITOR 6.3V 22U	2	2
C3706	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1		C4316-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	1
C3708	EEVHB1C100	E.CAPACITOR 16V 10U	1		C4400	EEVHB1H100P	E.CAPACITOR 50V 10U	+	1
C3709 C3711	ECUX1E104ZFV ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U C.CAPACITOR CH 25V 0.1U	1		C4401 C4402	EEVHB1H1R0 ECUX1E104ZFV	E.CAPACITOR 50V 1U C.CAPACITOR CH 25V 0.1U	+	1
C3711	ECUX1C1042FV	C.CAPACITOR CH 16V 10U	1		C4402 C4403	EEVHB1C100	E.CAPACITOR CH 25V 0.10	+	1
C3713	F1H1H104A783	C.CAPACITOR CH 50V 0.1U	1		C4404	F1L1C1060020	C.CAPACITOR CH 16V 10U	٠	1
C3714	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1		C4405	ECUX1H470JCV	C.CAPACITOR CH 50V 47P		1
C3715	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1		C4406,07	EEVHB1C100	E.CAPACITOR 16V 10U	2	2
C3716	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1		C4408	F1L1C1060020	C.CAPACITOR CH 16V 10U	,	1
C3717,18	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	2		C4409	ECUX1H470JCV	C.CAPACITOR CH 50V 47P		
C3719	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1		C4410	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C3720,21 C3722	ECUX1C106VBP ECUX1H103KBV	C.CAPACITOR CH 16V 10U C.CAPACITOR CH 50V 0.01U	1		C4411-13 C4414	ECUX1A105KBV EEVHB1C100	C.CAPACITOR CH 10V 1U E.CAPACITOR 16V 10U	- 3	1
C3723	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1		C4415	VCE0200	E.CAPACITOR	+-	F2G0J3310002
C4000,01	EEVHB1C470	E.CAPACITOR 16V 47U	2		C4416,17	ECUX1H182KBV	C.CAPACITOR CH 50V 1800P	1	2
C4002	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1		C4418	VCE0200	E.CAPACITOR	1	F2G0J3310002
C4003,04	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2		C4420	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U		1
C4005-08	EEVHP1H1R0	E.CAPACITOR 50V 1U	4		C4421	ECUM1C474KBN	C.CAPACITOR CH 16V 0.47U		1
C4009,10	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2		C4423	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U		
C4011,12 C4013.14	EEVHP1H1R0 ECUX1H471JCV	E.CAPACITOR 50V 1U C.CAPACITOR CH 50V 470P	2		C4424 C4425	ECUM1C474KBN F1L1C1060020	C.CAPACITOR CH 16V 0.47U C.CAPACITOR CH 16V 10U	+ :	
C4015,14 C4015-18	EEVHP1H1R0	E.CAPACITOR 50V 1U	4		C4425 C4426,27	EEVHB0J470	E.CAPACITOR 6.3V 47U	+	
		C.CAPACITOR CH 25V 0.1U	1		C4428	ļ	C.CAPACITOR CH 16V 10U	+	1
	EEVHB0J330	E.CAPACITOR 6.3V 33U	2		C4429	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	1
C4022	EEVHB0J220	E.CAPACITOR 6.3V 22U	1		C4430,31	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	2
C4023	ECUX1H183KBV	C.CAPACITOR CH 50V 0.018U	1		C6000	VCK0152	C.CAPACITOR	1	F1L1C1060016
C4024,25	ECUX1C273KBV	C.CAPACITOR CH 16V 0.027U	2		C6010	VCK0152	C.CAPACITOR	Ľ	F1L1C1060016
C4026,27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2		C6012,13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1 2	2
C4028,29 C4030	EEVHB0J330 EEVHB0J220	E.CAPACITOR 6.3V 33U E.CAPACITOR 6.3V 22U	1		C6015,16 C6017	ECUX1E104ZFV ECUX1H221JCV	C.CAPACITOR CH 25V 0.1U C.CAPACITOR CH 50V 220P	+	
C4030	ECUX1H183KBV	C.CAPACITOR CH 50V 0.018U	1		C6017	ECUX1FI2213CV ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	18	3
C4032,33	ECUX1C273KBV	C.CAPACITOR CH 16V 0.027U	2		C6103-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	1
C4034-37	EEVHB0J470	E.CAPACITOR 6.3V 47U	4		C6107,08	EEVHB1A101P	E.CAPACITOR 10V 100U	2	2
C4038-40	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	3		C6109-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	3
C4041-44	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4		C6112	EEVHB1A330	E.CAPACITOR 10V 33U	Ι.	1
C4100,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2		C6113	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	<i>\'</i>	1
C4102	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1		C6200-10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	11	
C4103,04 C4105	EEVHP0J100 EEVHB0J220	E.CAPACITOR 6.3V 10U E.CAPACITOR 6.3V 22U	1		C6300-12 C6400-07	ECUX1E104ZFV ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U C.CAPACITOR CH 25V 0.1U	13	
C4105	F1L1C1060020	C.CAPACITOR CH 16V 10U	1		C6500,01	ECUX1H150JCV	C.CAPACITOR CH 50V 15P		
C4107,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2		C6502-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10)
C4109	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1		C6512	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	1
C4110,11	EEVHP0J100	E.CAPACITOR 6.3V 10U	2	-	C7001	F1H1A105A004	C.CAPACITOR CH 10V 1U		1
C4112	EEVHB0J220	E.CAPACITOR 6.3V 22U	1		C7002	F1H1H151A231	C.CAPACITOR CH 50V 150P	Ľ	1
C4113	F1L1C1060020	C.CAPACITOR CH 16V 10U	1		C7003	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	<i>\\</i>	1
	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2		C7021-24	F3F1A225A003	T.CAPACITOR CH 10V 2.2U	4	1
C4114,15	EOUNAE: COM				C7025	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1 1	l i
C4200,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2		07000	E1U1E4044040	C CARACITOR CULORY A 411		
C4200,01 C4202,03	EEVHB0G470	E.CAPACITOR 4V 47U	2		C7029 C7031.32	F1H1E104A016 F1H1E104A016	C.CAPACITOR CH 25V 0.1U		1
C4200,01	1		_		C7029 C7031,32	F1H1E104A016 F1H1E104A016	C.CAPACITOR CH 25V 0.1U C.CAPACITOR CH 25V 0.1U	2	2

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pc	
C7102	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		C7508,09	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	+:	2
C7104 C7105,06	ECUX1H040CCV F1H1A105A004	C.CAPACITOR CH 50V 4P C.CAPACITOR CH 10V 1U	2		C7510 C7511	ECUX1E104ZFV ECST1CX106Z	C.CAPACITOR CH 25V 0.1U T.CAPACITOR CH 16V 10U	+	1
C7105,00	ECST1DX106Z	T.CAPACITOR CH 20V 10U	1		C7511	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	+	1
C7110	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	F1H1H471A004	C7513	ECST1CX106Z	T.CAPACITOR CH 16V 10U	١.	1
C7111	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		C7514	ECHU1C104J	P.CAPACITOR 16V 0.1U	1	1
C7112	F3G1C1560001	T.CAPACITOR CH 16V 15U	1		C7515	EEVHP1C100	E.CAPACITOR 16V 10U		1
C7114	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		C7516,17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	:	2
C7115	ECST1AC476R	T.CAPACITOR CH 10V 47U	1	F3G1C1560001	C7518	ECHU1C104J	P.CAPACITOR 16V 0.1U		1
C7116	F3G1C1560001	T.CAPACITOR CH 16V 15U	1		C7519	EEVHP1C100	E.CAPACITOR 16V 10U	+	1
C7118	F1H1A105A004	C.CAPACITOR CH 10V 1U C.CAPACITOR CH 25V 0.1U	1		C7520	ECHU1C104J	P.CAPACITOR 16V 0.1U E.CAPACITOR 16V 10U	-	1
C7119 C7120	F1H1E104A016 F1H1H103A190	C.CAPACITOR CH 25V 0.10	1		C7521 C7522	EEVHP1C100 ECUX1E104ZFV	E.CAPACITOR 16V 10U C.CAPACITOR CH 25V 0.1U	+	1
C7121-26	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	6		C7523	ECST1CX106Z	T.CAPACITOR CH 16V 10U	١.	1
C7127	ECST1DX106Z	T.CAPACITOR CH 20V 10U	1		C7524	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	٠	1
C7128	F1H1H270A231	C.CAPACITOR CH 50V 27P	1		C7525,26	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	1	2
C7131	F3G1C1560001	T.CAPACITOR CH 16V 15U	1		C8001	F1H1A105A004	C.CAPACITOR CH 10V 1U		1
C7132	F1H1H103A190	C.CAPACITOR CH 50V 0.01U	1		C8005,06	VCEA1AAP221	E.CAPACITOR 10V 220U	1	F2D1A2210001
C7134	F3G1C1560001	T.CAPACITOR CH 16V 15U	1		C8009	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1	1
C7135	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		C8011	ECST1CX106Z	T.CAPACITOR CH 16V 10U	+	1
C7136 C7137-41	F3G1C1560001 F1H1E104A016	T.CAPACITOR CH 16V 15U C.CAPACITOR CH 25V 0.1U	1 5		C8012-16 C8017	F1H1E104A016 F1H1H300A004	C.CAPACITOR CH 25V 0.1U C.CAPACITOR CH 50V 30P	+ :	1
C7137-41	ECUX1H180JCV	C.CAPACITOR CH 25V 0.10 C.CAPACITOR CH 50V 18P	1		C8017	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	+	1
C7202	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		C8019	F1H1H101A231	C.CAPACITOR CH 50V 100P	+	1
C7204	ECUX1H040CCV	C.CAPACITOR CH 50V 4P	1		C8021	SK41C336MC	T.CAPACITOR CH 16V 33U	†	1
C7205,06	F1H1A105A004	C.CAPACITOR CH 10V 1U	2		C8022	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1	1
C7209	ECST1DX106Z	T.CAPACITOR CH 20V 10U	1		C8024	F1H1E104A016	C.CAPACITOR CH 25V 0.1U		1
C7210	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	F1H1H471A004	C8026-28	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	;	3
C7211	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		C8030-56	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	2	7
C7212	F3G1C1560001	T.CAPACITOR CH 16V 15U	1		C8071	F1H1H470A231	C.CAPACITOR CH 50V 47P	+ '	1
C7214 C7215	F1H1E104A016 ECST1AC476R	C.CAPACITOR CH 25V 0.1U T.CAPACITOR CH 10V 47U	1	E2C1C1E60001	C8073-76 C8077	F1H1E104A016	C.CAPACITOR CH 25V 0.1U T.CAPACITOR CH 10V 47U	+	1
C7216	F3G1C1560001	T.CAPACITOR CH 10V 47U T.CAPACITOR CH 16V 15U	1	F3G1C1560001	C8077	ECST1AC476Z F1H1E104A016	C.CAPACITOR CH 10V 470	+.	1
C7218	F1H1A105A004	C.CAPACITOR CH 10V 1U	1		C8082-84	F3F1A4750001	T.CAPACITOR CH 10V 4.7U	+	3
C7219	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		C8085	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	١.	1
C7220	F1H1H103A190	C.CAPACITOR CH 50V 0.01U	1		C8086	ECST1AC476Z	T.CAPACITOR CH 10V 47U	Τ.	1
C7221-26	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	6		C8087	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U		1
C7227	ECST1DX106Z	T.CAPACITOR CH 20V 10U	1		C8088-90	F3F1A4750001	T.CAPACITOR CH 10V 4.7U	;	3
C7228	F1H1H270A231	C.CAPACITOR CH 50V 27P	1		C8092,93	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	:	2
C7231	F3G1C1560001	T.CAPACITOR CH 16V 15U	1		C8094	F1H1H150A231	C.CAPACITOR CH 50V 22P	1	1
C7232	F1H1H103A190	C.CAPACITOR CH 50V 0.01U	1		C8095,96	YGM1C471J1HT F1H1H200A004	C.CAPACITOR 16V 470U	+-	2
C7234 C7235	F3G1C1560001 F1H1E104A016	T.CAPACITOR CH 16V 15U C.CAPACITOR CH 25V 0.1U	1		C8097 C8098,99	YGM1C471J1HT	C.CAPACITOR CH 50V 20P C.CAPACITOR 16V 470U	+.	2
C7236	F3G1C1560001	T.CAPACITOR CH 16V 15U	1		C8105	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	+ :	1
C7237-41	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	5		C8108	F1K1E1040003	C.CAPACITOR CH 25V 0.1U	١.	1
C7244	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1		C8109	F1H1H122A013	C.CAPACITOR CH 50V 1200P	Τ.	1
C7302	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		C8111	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	Ι.	1
C7304	ECUX1H040CCV	C.CAPACITOR CH 50V 4P	1		C8112	F3F1A225A003	T.CAPACITOR CH 10V 2.2U		1
		C.CAPACITOR CH 10V 1U	2		C8113	F1H1E223A002	C.CAPACITOR CH 25V 0.022U	1	1
C7309	ECST1DX106Z	T.CAPACITOR CH 20V 10U	1	E1U1U171A004	C8118	ECST1CC336Z	T.CAPACITOR CH 16V 33U	+	1
C7310	ECUX1H102JCV E1H1E104A016	C.CAPACITOR CH 25V 0.1U	1	F1H1H471A004	C8119	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	+	1
C7311 C7312	F1H1E104A016 F3G1C1560001	C.CAPACITOR CH 25V 0.1U T.CAPACITOR CH 16V 15U	1		C8120 C8121.22	ECST1CX106Z F1H1E104A016	T.CAPACITOR CH 16V 10U C.CAPACITOR CH 25V 0.1U	+	2
C7312	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		C8121,22	ECST1CC336Z	T.CAPACITOR CH 16V 33U	۲	1
C7315	ECST1AC476R	T.CAPACITOR CH 10V 47U	1	F3G1C1560001	C8124-27	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1	4
C7316	F3G1C1560001	T.CAPACITOR CH 16V 15U	1		C8136	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	Τ.	1
C7318	F1H1A105A004	C.CAPACITOR CH 10V 1U	1		C8137,38	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	:	2
C7319	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		C8139	F3F1A1060001	T.CAPACITOR CH 10V 10U	<u> </u>	1
C7320	F1H1H103A190	C.CAPACITOR CH 50V 0.01U	1		C8140	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	<u> </u>	1
C7321-26	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	6		C8141	ECST1CX156Z	T.CAPACITOR CH 16V 15U	+	1
C7327 C7328	ECST1DX106Z	T.CAPACITOR CH 20V 10U C.CAPACITOR CH 50V 27P	1		C8142,43 C8144	F1H1H470A231 F1H1H150A231	C.CAPACITOR CH 50V 47P C.CAPACITOR CH 50V 22P	+	1
C7328	F1H1H270A231 F3G1C1560001	C.CAPACITOR CH 50V 27P T.CAPACITOR CH 16V 15U	1		C8144 C8145,46	F1H1H150A231 F1H1E104A016	C.CAPACITOR CH 50V 22P	+	2
C7331	F1H1H103A190	C.CAPACITOR CH 50V 0.01U	1		C8143,46	F3F1A1060001	T.CAPACITOR CH 10V 10U	Ħ	1
C7334	F3G1C1560001	T.CAPACITOR CH 16V 15U	1		C8150	ECST1DX106Z	T.CAPACITOR CH 20V 10U	†	1
C7335	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	_1		C8153,54	F1H1H470A231	C.CAPACITOR CH 50V 47P	:	2
C7336	F3G1C1560001	T.CAPACITOR CH 16V 15U	1		C8155	F1H1H150A231	C.CAPACITOR CH 50V 22P		1
C7337-41	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	5		C8157	F1H1H100A226	C.CAPACITOR CH 50V 100P	1	1
C7344	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1		C8161	ECST1AX226Z	T.CAPACITOR CH 10V 22U	<u> </u>	1
C7501	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1		C8162	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	1
C7502	ECST1CX106Z	T.CAPACITOR CH 16V 10U	1		C8163	ECST1DX106Z	T.CAPACITOR CH 20V 10U	+	1
C7503 C7504	ECUX1E104ZFV ECST1CX106Z	C.CAPACITOR CH 25V 0.1U T.CAPACITOR CH 16V 10U	1		C8165 C8166	F1H1H151A231 F1H1H330A231	C.CAPACITOR CH 50V 150P C.CAPACITOR CH 50V 33P	+	1
C7504	ECUX1H102JCV	C.CAPACITOR CH 16V 1000P	1		C8168	F3F1A1060001	T.CAPACITOR CH 10V 10U	+.	1
0.000		C.CAPACITOR CH 25V 0.1U	2		C8172	ECST1CX156Z	T.CAPACITOR CH 16V 15U	+	1
C7506,07	ECUX1E104ZFV								1
C7506,07	ECUXTETU4ZFV								

Ref.No.			_			1	1	-	
	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Po	s Remarks
C8173	F1H1H2R0A260	C.CAPACITOR CH 50V 2P	1		D6013-20	MA3J14300L	DIODE	T	8
C8178	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		D6100	MA142WA	DIODE		1
C8187	F3F1A4750001	T.CAPACITOR CH 10V 4.7U	1		D6400	MA142WA	DIODE	+	1
	-							-	
C8188	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		D7101	MA142K	DIODE	-	1
C8189	ECST1AC476Z	T.CAPACITOR CH 10V 47U	1		D7201	MA142K	DIODE		1
C8190,91	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	2		D7301	MA142K	DIODE		1
C8192	F1H1H150A231	C.CAPACITOR CH 50V 22P	1		D8004-07	B0CCAB000015	DIODE		4
C8193,94	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	2		D8700,01	MA3J14300L	DIODE		2
C8196	F1H1A105A004	C.CAPACITOR CH 10V 1U	1		D8750	MA3056-M	DIODE		1
C8209	F1H1H181A004	C.CAPACITOR CH 50V 180P	1					t	
C8213-16	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	4		FL3001	VLF1492	FILTER		1
			1					-	1
C8219	F1H1H101A231	C.CAPACITOR CH 50V 100P			FL8002	J0E3584B0005	FILTER	-	1
C8221	F1H1H220A231	C.CAPACITOR CH 50V 22U	1					_	
C8222	F1H1H4R0A243	C.CAPACITOR CH 50V 4P	1		IC1	TC7WH08F	IC		1 C0JBAA000255 FOR VEP000L8A
C8223	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		IC3001	XC62FP5002P	IC		1
C8225,26	F1H1H220A231	C.CAPACITOR CH 50V 22U	2		IC3003-05	AD8051AR	IC		3
C8228	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		IC3006	XC62FP3002P	IC		1
C8229	F3H1A4760005	T.CAPACITOR CH 10V 47U	1		IC3007-09	C0FBAF000042	IC		3
C8230-32	F1H1E104A016		3			NJM062V	IC	-	3
	+		-		IC3010-12			-	
C8233	F1H1H470A231	C.CAPACITOR CH 50V 47P	1		IC3301	XC62FP3002P	IC	1	1
C8240	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1		IC3302	NJM2534V	IC	L	1
C8600,01	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	2		IC3303	TC4W53FU	IC		1
C8602	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		IC3304	MC14053BDT	IC		1
C8603	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1		IC3305,06	NJM2538VT	IC	Ī.	2
C8604,05	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	2		IC3307	TC7S14FU	IC	Ħ	1 C0JBAZ000516
C8608-10	ECST1AY106Z	T.CAPACITOR CH 10V 10U	3		IC3401	XC62FP3002M	IC	H	1
C8612	-	T.CAPACITOR CH 10V 10U	1		IC3401	BH7086KV	IC	H	1 C1ZBZ0001649
	ECST1AY106Z							-	1 C12B20001649
C8613-18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6		IC3404	TC7SH04FU	IC	1	1
C8650,51	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2		IC3500	M62370GP	IC		1 C0FBBD000082
C8652	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1		IC3501	MC14053BDT	IC		1
C8653	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1		IC3601	XC62FP3002P	IC		1
C8655	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1		IC3602	AN3742FHN-EB	IC		1
C8656	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1		IC3604	C1AB00000860	IC	t	1
C8657,58	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	2		IC3702	XC62FP5002P	IC	t	1
	-		1					+	1
C8659	ECST1CC336R	T.CAPACITOR CH 16V 33U			IC3704	NJM2902V	IC	-	1
C8700,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2		IC3707	C0JBAA000265	IC	_	1
C8702,03	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	2		IC4000	UPC5022GA121	IC		1
C8750	ECST1EC106Z	T.CAPACITOR CH 25V 10U	1		IC4001	NJM062M-D	IC		1
C8751	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		IC4002	MC14053BDT	IC		1
C8752	ECST1DX106Z	T.CAPACITOR CH 20V 10U	1		IC4003,04	TVHT04FT	IC		2
C8753	ECST0JC686	T.CAPACITOR CH6.3V 68U	1		IC4100,01	NJM4580ED	IC	t	2 C0ABBB000123
C8754	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		IC4102	MC14053BDT	IC	Н	1
			1				IC	-	1
C8755	F3H1A4760005	T.CAPACITOR CH 10V 47U	_		IC4200	XC62AP3002P		-	
C8756	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1		IC4201	AK4503VF	IC	-	1
C8757	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		IC4202,03	NJM062M-D	IC		2
C8759	SK41C336MC	T.CAPACITOR CH 16V 33U	1		IC4204	NJM062V	IC		1
C8760	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1		IC4205	TC7W125FU	IC		1
C8761	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1		IC4400	NJM062M-D	IC		1
C8762	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1		IC4401	BA7785FS	IC		1
C8763	ECST0JY106Z	T.CAPACITOR CH6.3V 10U	1		IC6000	C0EBJ0000049	IC	t	1
C8764	ECST103T100Z ECST1CX156Z	T.CAPACITOR CH 16V 15U	1		IC6000	C0EBE0000075	IC	H	1
								┢	<u>'</u>
C8765,66	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2		IC6002	NJM2904V	IC	╀	1
C8800-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4		IC6004	TC7W125FU	IC	L	1
C8804	ECST1CX156Z	T.CAPACITOR CH 16V 15U	1		IC6005	TC7SH04FU	IC		1
C8805-08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4		IC6006	NJM2904V	IC		1
C8809	ECST1CX156Z	T.CAPACITOR CH 16V 15U	1		IC6101	LVX3245QSC	IC		1
C8810-17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8		IC6102,03	TVHT541FT	IC	Ī.	2
C8818,19	ECST1AX336	E.CAPACITOR 6.3V 120U	2		IC6105	STK12C68S45	IC	t	1
C8820,21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2		IC6106	UPD4992GS	IC	H	1
	ECST1CX106Z		-				IC	H	
C8822	E03110X100Z	T.CAPACITOR CH 16V 10U	- '		IC6107	S8420BF		┢	<u>'</u>
BC TT		2,025			IC6108	TVHT541FT	IC	1	1
	MA142K	DIODE	1		IC6200	C1AB00000936	IC	L	1
D3401	MA3J14300L	DIODE	1		IC6301	C1AB00000936	IC	L	1
D4001	MA142WK	DIODE	1		IC6302	C0JBAZ001605	IC		1
D4003	MA142WK	DIODE	1		IC6400,01	TLCX574FT	IC		2
D4004-09	MA3J14300L	DIODE	6		IC6402	C1AB00001228	IC	Ħ	1
	MA142K	DIODE	2		IC6403	TLCX32FT	IC	H	1
	MA3J14300L	DIODE	4			C0JBAB000356	IC	H	2
	+		1		IC6502,03			H	1
D4400	MA3220	DIODE	1		IC7001	C0JBAB000028	HEX BUFFER	╀	1
D4401	MA3J14300L	DIODE	1		IC7005	TC4W53FU	IC	L	1
D6000	MA142K	DIODE	1		IC7006	NJM2059M	IC	L	1 C0ABCB000023
	MA3J14300L	DIODE	1		IC7007	C5AB00000001	IC		1
D6005		DIODE	1		IC7008	TVHT08FT	IC	T	1
D6005 D6007	MA3J14300L							+	1
D6007	-	DIODE	1	1 1	IC7101	IMC14053BD1	IIC		1
D6007 D6009	MA142K	DIODE	1		IC7101	MC14053BDT N.IM4559M	IC IC	-	1
D6007	-	DIODE DIODE			IC7101 IC7102,03	NJM4559M	IC IC		1

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Рс	s Remarks
IC7104	NJM072BV	IC	1	C0ABEB000037	L11,12	J0JKC0000009	FILTER	:	2
IC7105	NJM4560M	IC	1		L13-17	VLF1315A102	FILTER	ţ	5 J0JHC0000015
IC7108	TC4W53FU	IC	1		L51	VLF1315A102	FILTER		1 J0JHC0000015
IC7201	MC14053BDT	IC	1		L52	VLQ0319M6R8	COIL 6.8UH		1 G1C6R8MA0001
IC7202,03	NJM4559M	IC	2		L3001,02	VLQ0163J820	COIL 82UH	:	2
IC7204	NJM072BV	IC	1	C0ABEB000037	L3003,04	VLQ0163J680	COIL 68UH	:	
IC7205	NJM4560M	IC	1		L3403,04	VLP0353	COIL	- :	2
IC7208	TC4W53FU	IC	1		L3601	VLP0353	COIL		1
IC7301	MC14053BDT	IC	1		L3602,03	VLQ0319K101	COIL 100UH	:	2 G1C101K00022
	NJM4559M	IC	2		L4000-05	VLQ0163J100	COIL 10UH	(6
IC7304	NJM072BV	IC	1	C0ABEB000037	L4201,02	VLQ0163J100	COIL 10UH	-:	2
IC7305	NJM4560M	IC	1		L7501	VLQ0319K220	COIL 22UH		1 G1C220K00015
IC7308	TC4W53FU	IC	1		L8001	G1C390J00001	COIL 39UH	Ľ.	1
IC7501,02	TC7SET32FU	IC	2		L8002-04	VLP0353	COIL	-	3
IC7503	NJM064V	IC	1		L8005	ELJFC4R7MF	COIL 4.7UH		
IC7504	MC14053BDT	IC	1		L8006	YWNL324R7J	COIL 4.7UH	Ŀ.	1
IC7505	NJM064V	IC	1		L8007,08	ELJFC4R7MF	COIL 4.7UH	- 3	
IC7506	MC14053BDT	IC	1		L8009,10	ELJFC5R6MF	COIL 5.6UH	- 3	4
IC7507	C0FBBD000023	IC	1		L8551	J0JKC0000009	FILTER	L.	1
IC8001	M51957BFP	IC	1		L8600	J0JKC0000009	FILTER	L.	1
IC8004	TVHT08FT	IC IC	1		L8603,04	VLP0353	COIL	-	4
IC8005	BR9040F	IC IC	1		L8651	ELJFC4R7MF	COIL 4.7UH	H.	1
IC8006	TVHC138FT	IC IC	1		L8652	VLQ0163J5R6	COIL 5.6UH COIL 68UH	H	1
IC8007	UPD6465GT611 C0FBBD000023	IC IC	1		L8653 L8700,01	VLQ0163J680 VLP0353	COIL 68UH		
IC8009 IC8010-12	MN6577F	IC IC	3		L8700,01 L8800	VLP0353 ELJFC4R7MF	COIL 4.7UH	H	1
IC8015	NJM2904V	IC	1		L0000	LLUI CAR/IVIF	9.70F		
IC8015	TVS1129	IC IC	1	C0JBAZ000525	P1	VJP3978C120E	CONNECTOR (MALE)	١.	1
IC8020	C0BBBA000019	IC IC	1		P2	VJS3826A020	CONNECTOR (MALE)	Η.	1
IC8026	TC7SH00FU	IC	1		P3	K1MZ06B00001	CONNECTOR (FEMALE)	١.	1
IC8029	C1ZBZ0000169	IC	1		P4	K1MM16B00003	CONNECTOR		1
IC8030	F432532APGF	IC	1	C1AB00000199	P6	K1MM21B00003	CONNECTOR		1
IC8031	C0JBAB000220	IC	1	0 17 LD 00000 100	P7	VJS2848D018	CONNECTOR (FEMALE)		1 K1MN18B00010
IC8032	TC7SH04FU	IC	1		P8	VJP3125D015	CONNECTOR (MALE)		1 K1KA15B00034
IC8035	TC7SH08FU	IC	1		P9	VJS3801D024	CONNECTOR (FEMALE)		1
IC8037	C0FABD000019	IC	1		P10	VJP3125B011	CONNECTOR (MALE)		1
IC8039	LM1881M	IC	1		P11	VJP3125B006	CONNECTOR (MALE) 6P		1
IC8040	TVHC221FT	IC	1		P12	VJS3801D024	CONNECTOR (FEMALE)		1
IC8041	TC7SH02FU	IC	1		P13	VJS3801B040	CONNECTOR (FEMALE)		1
IC8042	C0JBAB000005	IC	1		P15	VJP3172D003	CONNECTOR (MALE)		1 K1KA03B00006
IC8044	C0JBAB000005	IC	1		P16	VJP3518B013	CONNECTOR (MALE)		1 K1KA13B00036
IC8047	C0JBAB000003	IC	1		P17	VJP3172D002	CONNECTOR (MALE)	-	1 K1KA02B00051
IC8048	YULLW0106	IC	1		P18	VJP3125B010	CONNECTOR (MALE)	-	1 K1KA10B00136
IC8049	C0JBAZ000025	IC	1		P19	VJP3125B008	CONNECTOR (MALE)		1
IC8050	YULLW0106	IC	1		P20	VJP3884B060	CONNECTOR (MALE)		1
IC8051	TC7SH08F	IC	1		P21	VJP3358C022	CONNECTOR (MALE)		1 K1KA22A00027
IC8422	C0JBAB000220	IC	1		P22	VJP3172D007	CONNECTOR (MALE)		1
IC8423	C0JBAZ000280	IC	1		P23	VJP3172D006	CONNECTOR (MALE)		1 K1KA06B00054
IC8425	TC7SH04FU	IC	1		P30	VJS3826A020	CONNECTOR (FEMALE)		1
IC8429	C0ABBB000179	IC	1		P6000	VJS3826A020	CONNECTOR (FEMALE)		1
IC8432	C0ABEB000023	IC	1		P8000	VJS3826A020	CONNECTOR (FEMALE)	Ι.	1
IC8601	TC7SH00FU	IC	1		P8001	VJP3950A002	CONNECTOR (MALE)		1
IC8604,05	C0CBABC00059	IC	2				·		
IC8607	TC7SZ00F	IC	1		Q3001-04	2SD1819A-R	TRANSISTOR	4	4
IC8700,01	TC4W53FU	IC	2		Q3005,06	2SA1532-B	TRANSISTOR	:	2
IC8702,03	TC7W126F	IC	2		Q3007,08	2SB1218A-R	TRANSISTOR	:	2
IC8704	TC7SH08FU	IC	1		Q3009-11	2SD1819A-R	TRANSISTOR	- ;	3
IC8751	NJM431U	IC	1	C0DBEZC00003	Q3012-14	2SK662-R	TRANSISTOR	;	3
IC8754	NJM2904V	IC	1		Q3015-17	2SD1819A-R	TRANSISTOR		3
IC8755	NJM2902V	IC	1		Q3301	2SD1819A-R	TRANSISTOR	Ι.	1
IC8756	TC7W04FU	IC	1		Q3701-04	2SD874A-R	TRANSISTOR	_	4
IC8757	XC62FP4502P	IC	1		Q4000	2SD1819A-R	TRANSISTOR	[1
IC8800	ADV7123KST50	IC	1	C0FBBF000020	Q4001	2SD602A-S	TRANSISTOR	Γ.	1
IC8802,03	TC7SET08F	IC	2		Q4002	2SB710A-R	TRANSISTOR	Ľ	1
IC8804-07	TC4W53FU	IC	4		Q4003-05	2SB12200HL	TRANSISTOR	;	3
IC8808,09	TC7SH04FU	IC	2		Q4100,01	2SD1979	TRANSISTOR	:	2
			L		Q4102-04	2SD1819A-R	TRANSISTOR	;	3
	C1ZBZ0001803	IC	1		Q4105,06	2SD1979	TRANSISTOR	:	2
IP3402	. —	MICRO CONTROLLER	1		Q4107-09	2SD1819A-R	TRANSISTOR		3
IP3402 IP6003	C2GBC0000084		1		Q4400	2SD602A-R	TRANSISTOR		1
IP6003	C2GBC0000084 C1ZBZ0001803	IC	- 1			0004070	TRANSISTOR	_	
P6003 P6501		IC MICRO COMPUTER	1		Q4401-04	2SD1979	TRANSISTOR	4	4
P6003 P6501	C1ZBZ0001803		1		Q4401-04 Q4405	2SB1219A-R	TRANSISTOR		1
P6003 P6501 P8003	C1ZBZ0001803		1		I	ļ			4 1 1
P6003 P6501 P8003	C1ZBZ0001803 C3FBEZ000002	MICRO COMPUTER	1 1 2		Q4405	2SB1219A-R	TRANSISTOR		4 1 1
P6003 P6501 P8003	C1ZBZ0001803 C3FBEZ000002 VJR1094	MICRO COMPUTER TERMINAL			Q4405 Q6401	2SB1219A-R XN1213	TRANSISTOR TRANSISTOR-RESISTOR		4 1 1 1
	C1ZBZ0001803 C3FBEZ000002 VJR1094	MICRO COMPUTER TERMINAL			Q4405 Q6401 Q6403	2SB1219A-R XN1213 XN4601	TRANSISTOR TRANSISTOR-RESISTOR TRANSISTOR-RESISTOR		

Ref.No.									
TCI.ITO.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pc	s Remarks
Q7103	2SC39310YL	TRANSISTOR	1		QR4401	UNR511300L	TRANSISTOR-RESISTOR		
Q7104	2SK662-PQR	TRANSISTOR	1		QR6201	UN5215	TRANSISTOR-RESISTOR	<u> </u>	
Q7105	XN0653400L	TRANSISTOR	1		QR6300	UNR521300L	TRANSISTOR-RESISTOR	Ľ	
Q7106-08	XN0643500L	TRANSISTOR	3		QR6301-04	UNR511500L	TRANSISTOR-RESISTOR	-	
Q7110 Q7111	XN0643500L 2SK662-PQR	TRANSISTOR TRANSISTOR	1		QR6400 QR6401	UNR521100L UNR511100L	TRANSISTOR-RESISTOR TRANSISTOR-RESISTOR	Η.	
Q7111 Q7113-16	XN0643500L	TRANSISTOR	4		QR6402,03	UNR521100L	TRANSISTOR-RESISTOR	١.	
Q7117,18	2SA15320CL	TRANSISTOR	2		QR8700	UNR521300L	TRANSISTOR-RESISTOR	F.	
Q7119	2SC39310YL	TRANSISTOR	1		QR8702	UNR521300L	TRANSISTOR-RESISTOR	Τ.	
Q7120	2SK662-PQR	TRANSISTOR	1						
Q7121	XN0643500L	TRANSISTOR	1		R1-R3	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	;	3
Q7122	2SC39310YL	TRANSISTOR	1		R6	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47		
Q7202	XN0653400L	TRANSISTOR	1		R9	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0		
Q7203	2SC39310YL	TRANSISTOR	1		R10	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	<i>\\</i>	
Q7204	2SK662-PQR	TRANSISTOR	1		R12	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	<u> </u>	
Q7205	XN0653400L	TRANSISTOR	1		R50-53	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
Q7206-08	XN0643500L	TRANSISTOR	3		R3001-06	ERJ3RBD512	M.RESISTOR CH 1/16W 5.1K	1	
Q7210 Q7211	XN0643500L 2SK662-PQR	TRANSISTOR TRANSISTOR	1		R3007,08	ERJ3GEY0R00 ERJ3GEYJ222	M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 2.2K	1	
Q7211 Q7213-16	XN0643500L	TRANSISTOR	4		R3016,17 R3018	ERJ3GE1J222 ERJ3GEYG152	M.RESISTOR CH 1/16W 2.2K		
Q7217,18	2SA15320CL	TRANSISTOR	2		R3019	ERJ3GEYG102	M.RESISTOR CH 1/16W 1.5K	+	
Q7217,10 Q7219	2SC39310YL	TRANSISTOR	1		R3020-22	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	- 3	3
Q7220	2SK662-PQR	TRANSISTOR	1		R3023	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	Ť	
Q7221	XN0643500L	TRANSISTOR	1		R3024	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	Τ.	
Q7222	2SC39310YL	TRANSISTOR	1		R3025	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
Q7302	XN0653400L	TRANSISTOR	1		R3026,27	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	2
Q7303	2SC39310YL	TRANSISTOR	1		R3028,29	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	2	2
Q7304	2SK662-PQR	TRANSISTOR	1		R3030,31	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	2
Q7305	XN0653400L	TRANSISTOR	1		R3032,33	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	2	2
Q7306-08	XN0643500L	TRANSISTOR	3		R3034,35	ERJ3RBD221	M.RESISTOR CH 1/16W 220	2	2
Q7310	XN0643500L	TRANSISTOR	1		R3036,37	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	2
Q7311	2SK662-PQR	TRANSISTOR	1		R3038	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K		
Q7313-16	XN0643500L	TRANSISTOR	4		R3039	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	H.	
Q7317,18	2SA15320CL	TRANSISTOR	1		R3040	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	Η.	
Q7319 Q7320	2SC39310YL 2SK662-PQR	TRANSISTOR TRANSISTOR	1		R3041 R3042	ERJ3GEYJ393 ERJ3GEYJ223	M.RESISTOR CH 1/16W 39K M.RESISTOR CH 1/16W 22K	+	
Q7321	XN0643500L	TRANSISTOR	1		R3043	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	١.	
	2SC39310YL	TRANSISTOR	1		R3044	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	١.	
	2SD1819A-R	TRANSISTOR	3		R3046	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	١.	
Q8004	XP0460100L	TRANSISTOR	1		R3048-50	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	3	3
Q8022	2SB1218ALL	TRANSISTOR	1		R3051-53	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	3	3
Q8023,24	2SC39310YL	TRANSISTOR	2		R3057-59	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	3
Q8025	2SB1218ALL	TRANSISTOR	1		R3060	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K		
	B1ABCF000059	TRANSISTOR	1		R3061,62	ERJ3RBD271	M.RESISTOR CH 1/16W 270	2	2
	B1ABCF000059	TRANSISTOR	1		R3063-65	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K		3
	B1ABCF000059	TRANSISTOR	1		R3066	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K		
Q8038	2SC39310YL	TRANSISTOR	1		R3068	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K		
	B1ABCF000059 2SB1218ALL	TRANSISTOR	1		R3070 R3072	ERJ3RBD222 ERJ3GEY0R00	M.RESISTOR CH 1/16W 2.2K	H	
	B1ABCF000059	TRANSISTOR TRANSISTOR	1		R3072 R3074	ERJ3GEY0R00 ERJ3RED910	M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 91	H.	
	2SC39310YL	TRANSISTOR	3		R3074 R3076	ERJ3RED910 ERJ3RBD101	M.RESISTOR CH 1/16W 91 M.RESISTOR CH 1/16W 100	+	
Q8050	XP0460100L	TRANSISTOR	1		R3078-80	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	-	3
Q8055	2SD18200WL	TRANSISTOR	1		R3081-83	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	3	
Q8056	2SB1219AHL	TRANSISTOR	1		R3084-86	ERJ3RED220	M.RESISTOR CH 1/16W 22		3
Q8750	2SB07660HL	TRANSISTOR	1		R3087-89	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	3	3
Q8751,52	2SB1218A-R	TRANSISTOR	2		R3090-92	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	3
Q8753	2SD874A-R	TRANSISTOR	1		R3095-99	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0		i .
Q8754	2SB07660HL	TRANSISTOR	1		R3101-05	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K		5
Q8800-02	2SB1218A-R	TRANSISTOR	3		R3109	ERJ3RED200	M.RESISTOR CH 1/16W 20	Ľ	
Q8803	2SD1819A-R	TRANSISTOR	1		R3110	ERJ3RBD681	M.RESISTOR CH 1/16W 680	<i>_'</i>	
Q8804	2SB1218A-R	TRANSISTOR	1		R3111	ERJ3RBD101	M.RESISTOR CH 1/16W 100	Ľ	
Q8805-07	2SD1819A-R	TRANSISTOR	3		R3112	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	Ľ	<u> </u>
OD2224 22	LINIO242	TRANSISTOR RESISTOR	_		R3113	ERJ3RED200	M.RESISTOR CH 1/16W 20	H	
QR3301,02 QR4000	UN9212 UNR511300L	TRANSISTOR-RESISTOR TRANSISTOR-RESISTOR	2		R3114 R3115	ERJ3RBD681 ERJ3RBD101	M.RESISTOR CH 1/16W 680 M.RESISTOR CH 1/16W 100	H	
	UNR511300L UNR521F00L	TRANSISTOR-RESISTOR TRANSISTOR-RESISTOR	2		R3115 R3116	ERJ3RBD101 ERJ3RBD222	M.RESISTOR CH 1/16W 100 M.RESISTOR CH 1/16W 2.2K	H.	
	UNR521F00L UNR511300L	TRANSISTOR-RESISTOR TRANSISTOR-RESISTOR	2		R3116 R3117	ERJ3RBD222 ERJ3RED200	M.RESISTOR CH 1/16W 2.2K M.RESISTOR CH 1/16W 20	+	
	UNR521F00L	TRANSISTOR-RESISTOR	2		R3118	ERJ3RBD681	M.RESISTOR CH 1/16W 20	+	
QR4005,00	UNR511300L	TRANSISTOR-RESISTOR	1		R3119	ERJ3RBD101	M.RESISTOR CH 1/16W 100	۲.	
	UNR521300L	TRANSISTOR-RESISTOR	3		R3120	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	t.	
QR4100	UNR511300L	TRANSISTOR-RESISTOR	1		R3121	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
	UNR521300L	TRANSISTOR-RESISTOR	1		R3122	ERJ3RBD162	M.RESISTOR CH 1/16W 1.6K	T	
QR4101			_		R3123	ERJ3RBD101	M.RESISTOR CH 1/16W 100	Τ.	1
	UNR511300L	TRANSISTOR-RESISTOR	1		R3123				·
	UNR511300L UNR521300L	TRANSISTOR-RESISTOR TRANSISTOR-RESISTOR	1		R3123	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	╁.	<u> </u>
QR4102					1			Ė	

Perform Perf	ı	1					ı	Т	_	1
SAMPRING SAMPRING				Pcs	Remarks				Po	es Remarks
SCHOOL SCHOOL PARTICULAR STATE										1
March Marc				1		I				1
MILESPENSON MILESPENSON				1						1
PASSES PRACESCOND MRESSTOR CH 1999 10 1 1 1 1 1 1 1 1				1					-	1
MISSES MISSESTOR CH 1999 20 1						I			H	1
MARCINITY AND MARCINITY CALL THOU AND AS 1				1						1
SASSIDE SASSIDED CENT FROM 3 AS 1	35 ERJ	RJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1		R3701,02	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K		2
RESPONSE REPRESENTED ON HERBESTOR CHI HIGH YOU	01 ERJ	RJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1		R3704	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K		1
RAZDER_FIREDO RAZDER_FIRED)2 ERJ	RJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1		R3706	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K		1
RESPITED CHARGE RESPITED CHARGE AND CHAR										1
RESTICE RESPONDENCE RESTORED CHINNEY ASK										1
RADIEST RADI				-					+	1
R331-17 RAJBERY RAJB				1					╫	1
R3318 R3067/103 R3067/10				2						1
RAJBER RAJBERYOND RABISTOR CH 1190W 1K 2									-	1
R331										1
BRADIEVY SET BRAD				2			ERJ3GEYJ103		t	1
R3324 R3362FV210 MRSISTOR CH 119W 106 1 R3720 R1895FV210 MRSISTOR CH 119W 106 1 R3324 R73720 R21865FV211 MRSISTOR CH 119W 106 1 R3721 R21865FV22 R3727 R21865FV211 MRSISTOR CH 119W 206 1 R3721 R21865FV22 MRSISTOR CH 119W 106 1 R3272 R32724 R32865FV210 MRSISTOR CH 119W 106 2 R32724 R327240 R32865FV210 MRSISTOR CH 119W 106 2 R327240 R32865FV210 MRSISTOR CH 119W 106 3 R32724 R327240 R32865FV210 MRSISTOR CH 119W 106 3 R32865FV210 R32865FV210 MRSISTOR CH 119W 106 3 R32865FV210 MRSISTOR CH 119W 106 3 R32865FV210 MRSISTOR CH 119W 106 3 R32865FV210 MRSISTOR CH 119W 206 4 R32865FV210	21 ERJ	RJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R3716	ERJ3RBD201	M.RESISTOR CH 1/16W 200		1
R3326 R336F1/21	22 ERJ	RJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R3717,18	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K		2
R3272 R326CY224 MESISTOR CH 1978 20 2 R3274.37 R326CY125 MESISTOR CH 1978 12 2 R3274.37 R326CY125 MESISTOR CH 1978 12 2 R3274.37 R326CY125 MESISTOR CH 1978 10 1 R326CY125 MESISTOR CH 1978 12			M.RESISTOR CH 1/16W 10K			R3719		M.RESISTOR CH 1/16W 10K	L	1
FIRST FRANCE FR										1
PRINCES PRINCE									1	1
BRIDGE B									-	1
PARTICIPATION PARTICIPATIO				-					-	2
PRINCE P				1		· · · · · · · · · · · · · · · · · · ·			H	2
PRINCE P				1					H	1
RASSING PRIJAGEN/JULE MERSISTOR CH 1190W 22K 1 RADIT 12 RADIT 12 RADIT 12 RADIT 13 RADIT 13 RADIT 14 RADIT 14 RADIT 15	36 ERJ	RJ6RED750	M.RESISTOR CH 1/10W 75	1		R4006	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K		1
RASSID ERUBREDATO M. RESISTOR CH 1/10W 47 1 RAGIS ERUSREVISIO M. RESISTOR CH 1/10W 51K 1 RAGIS ERUSREVISION M. RESISTOR CH 1/10W 51K 1 RAGIS ERUSREVISION M. RESISTOR CH 1/10W 18K 1 RAGIS ERUSREVISION M. RESISTOR CH 1/10W 47K 1 RAGIS ERUSREVISION M. RESISTOR CH 1/10W 10 1 RAGIS ERUSREVISION M. RESISTOR CH 1/10W 47K 1 RAGIS ERUSREVISION M. RESISTOR CH 1/10W 47C 1 RAGIS ERUSREVISION M. RESISTOR CH 1/10W 50K 1 RAG	B7 ERJ	RJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R4007-10	ERJ14YJ682	M.RESISTOR CH 1/4W 6.8K		4
RASH	38 ERJ	RJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R4011,12	ERJ6RBD223	M.RESISTOR CH 1/10W 22K		2
RA346 RRJSECY/1274 MRESISTOR CH 1/16W 3 0K 1 R4015 ERJSECY/1274 MRESISTOR CH 1/16W 47K 1 R3346 RRJSECY/1276 MRESISTOR CH 1/16W 47K 1 R4015 RRJSECY/1274 MRESISTOR CH 1/16W 47K 1 R3346 RRJSECY/1276 MRESISTOR CH 1/16W 47K 1 R4018 RRJSECY/1274 MRESISTOR CH 1/16W 47K 1 R3356 RRJSECY/1276 MRESISTOR CH 1/16W 0 1 R4018 RRJSECY/1276 MRESISTOR CH 1/16W 47K 1 R4020 RRJSECY/1276 MRESISTOR CH 1/16W 47K 2 R4020 RRJSECY/1276 MRESISTOR CH 1/16W 47C 1 R4020 RRJSECY/1276 MRESISTOR CH 1/16W 47C 1 R4020 RRJSECY/1276 MRESISTOR CH 1/16W 47C 1 R4020 RRJSECY/1276 MRESISTOR CH 1/16W 47C 2 R4020 RRJSECY/1276 MRESISTOR CH 1/16W 47C 1 R4020 RAJSECY/1276 MRESISTOR CH 1/16W 47C 1 R4020 RAJSECY/1	39 ERJ	RJ6RED470	M.RESISTOR CH 1/10W 47	1		R4013		M.RESISTOR CH 1/16W 910		1
RASSE RASSECVAPS MRESISTOR CH 1/16W 270K 1 RA016 ERJSCEVAPS MRESISTOR CH 1/16W 47 1 RA359 RASSECVAPS MRESISTOR CH 1/16W 0 1 RA018 RA019 RA016 RA017 RA018 RA017 RA018			M.RESISTOR CH 1/16W 5.6K			R4014	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K		1
RASSESTED CH 1/16W 0 1 RADIE PROPERTIES RESISTOR CH 1/16W 0 1 RADIE REJISECY/102 M. RESISTOR CH 1/16W 10 1 RADIE REJISECY/103 M. RESISTOR CH 1/16W 11 1 RADIE REJISECY/103 M. RESISTOR CH 1/16W 10 1 RADIE REJISECY/103 M. RESISTOR CH 1/16W 17 1 RADIE REJISECY/104 M. RESISTOR CH 1/16W 17 1 RADIE REJISECY/105 M. RESISTOR CH 1/16W 10 1 RADIE RADIE REJISECY/105 M. RESISTOR CH 1/16W 10 1 RADIE RADIE REJISECY/105 M. RESISTOR CH 1/16W 10 1 RADIE RADIE REJISECY/105 M. RESISTOR CH 1/16W 10 1 RADIE RADIE REJISECY/105 M. RESISTOR CH 1/16W 100 1 RADIE RADIE RADIE RADIE REJISECY/105 M. RESISTOR CH 1/16W 100 1 RADIE RAD										1
RA356 RA3GEVROOD RESISTOR CH 1769W 0 1 R4019 RA356 RA3GEVROOD RESISTOR CH 1769W 16 1 R4019 RA356 RA3GEVROOD RESISTOR CH 1769W 0 1 R4019 RA357 RA3GEVROOD RESISTOR CH 1769W 0 1 R4020 RA356VROOD RESISTOR CH 1769W 17 1 1 R4021 R4019 R4019 RA357 RA3GEVROOD RESISTOR CH 1769W 0 1 R4021 R4022 RA3GEVROOD RASSISTOR CH 1769W 0 1 R4021 R4022 RA3GEVROOD RASSISTOR CH 1769W 0 1 R4021 R4022 RA3GEVROOD R4036VROOD R4036VROOD R4037 R4036VROOD									+	1
RA396 RA3GEVROO M.RESISTOR CH 1769W 0 1 RA020 RA396EVROO M.RESISTOR CH 1769W 0 1 RA021 RA396EVROO M.RESISTOR CH 1769W 0 1 RA021 RA396EVROO M.RESISTOR CH 1769W 0 1 RA021 RA022 RA396EVROO M.RESISTOR CH 1769W 0 1 RA021 RA022										1
R3368 ERJ3GEV70R00 M.RESISTOR CH 1/16W 0 1 R4020 ERJ3GEVJA73 M.RESISTOR CH 1/16W 47K 1 R3370 R32/GEV70R00 M.RESISTOR CH 1/16W 0 1 R4021 ERJ3GEVJA73 M.RESISTOR CH 1/16W 47 1 1 1 1 1 1 1 1 1				-					-	1
R3372 R3362Y0800 M.RESISTOR CH 1/16W 0 1 R4021 R3362Y470 M.RESISTOR CH 1/16W 47 1 R337273 R3362Y0800 M.RESISTOR CH 1/16W 0 1 R4022.23 CR3362Y473 M.RESISTOR CH 1/16W 47 2 R3401 ER3362Y0471 M.RESISTOR CH 1/16W 47 2 R3402 ER3362Y0471 M.RESISTOR CH 1/16W 47 4 R4031 ER362Y3104 M.RESISTOR CH 1/16W 30 1 R3409 ER3362Y3104 M.RESISTOR CH 1/16W 47 4 R4032 ER3362Y3104 M.RESISTOR CH 1/16W 30 1 R3409 ER3362Y3234 M.RESISTOR CH 1/16W 30 1 R3409 ER3362Y3234 M.RESISTOR CH 1/16W 30 1 R3412 ER3362Y3234 M.RESISTOR CH 1/16W 30 1 R3412 ER3362Y3234 M.RESISTOR CH 1/16W 30 1 R3414 ER3362Y3234 M.RESISTOR CH 1/16W 20 1 R3414 ER3362Y3234 M.RESISTOR CH 1/16W 20 1 R3414 ER3362Y334 M.RESISTOR CH 1/16W 20 1 R3414 ER3362Y335 M.RESISTOR CH 1/16W 20 1 R3414 ER3362Y335 M.RESISTOR CH 1/16W 20 1 R3414 ER3362Y340 M.RESISTOR CH 1/16W 20 1				1					H	1
R3377 R3367 R3367Y0R00 M.RESISTOR CH 1/16W 470 1 R4026_27 R3367Y3473 M.RESISTOR CH 1/16W 470 1 R4026_27 R3367Y3473 M.RESISTOR CH 1/16W 470 1 R4026_27 R3367Y333 M.RESISTOR CH 1/16W 330 2 R3407 R3369CY4714 M.RESISTOR CH 1/16W 470 1 R4031 R4036_27 R3366Y3734 M.RESISTOR CH 1/16W 330 2 R3408 R3369CY3105 M.RESISTOR CH 1/16W 1M 1 R4032 R3366Y3734 M.RESISTOR CH 1/16W 330K 1 R3408 R3366Y3734 M.RESISTOR CH 1/16W 1M 1 R4032 R3366Y3734 M.RESISTOR CH 1/16W 330K 1 R3412 R3366Y3734 M.RESISTOR CH 1/16W 20K 1 R4033 R3366Y334 M.RESISTOR CH 1/16W 10K 1 R4035 R3366Y334 M.RESISTOR CH 1/16W 10K 1 R4036 R3366Y334 M.RESISTOR CH 1/16W 10K 1 R4036 R3366Y334 M.RESISTOR CH 1/16W 10K 1 R4036 R3366Y334 M.RESISTOR CH 1/16W 30K 1 R4036 R3366Y334 M.RESISTOR CH 1/16W 30K 1 R3419 R3419 R3456Y345 M.RESISTOR CH 1/16W 10K 1 R4036 R3366Y3134 M.RESISTOR CH 1/16W 30K 1 R3420 R3366Y3163 M.RESISTOR CH 1/16W 10K 1 R4101 R3426 R3366Y3163 M.RESISTOR CH 1/16W 10K 1 R4101 R3469 R3366Y3163 M.RESISTOR CH 1/16W 10K 1 R4102 R3366Y3163 M.RESISTOR CH 1/16W 10K 1 R4103 R3366Y3163 M.RESISTOR CH 1/16W 10K 1 R4104 R3366Y3163 M.RESISTOR CH 1/16W 10K 1 R4106 R338603 R3366Y3163 M.RESISTOR CH 1/16W 10K 1 R4106 R338603 R3366Y3163 M.RESISTOR CH 1/16W 10K 1 R4107 R41	70 ERJ			1		R4021	ERJ3GEYJ470			1
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R3605 ERJ3RBD391 M.RESISTOR CH 1/16W 390 1 R4110 ERJ3RBD203 M.RESISTOR CH 1/16W 20K 1 R3606 ERJ3RBD222 M.RESISTOR CH 1/16W 22K 1 R4111 ERJ3GEYJ104 M.RESISTOR CH 1/16W 100K 1 R4112 ERJ3GEYJ103 M.RESISTOR CH 1/16W 100K 1 R4112 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1 R4113 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1 R4113 ERJ3GEYJ103 M.RESISTOR CH 1/16W 15K 1 R4114 ERJ3GEYJ392 M.RESISTOR CH 1/16W 39K 1 R4114 ERJ3GEYJ392 M.RESISTOR CH 1/16W 39K 1 R4114 ERJ3GEYJ392 M.RESISTOR CH 1/16W 39K 1 R4115 ERJ3GEYJ392 M.RESISTOR CH 1/16W 49K 1 R4117 ERJ3GEYJ392 M.RESISTOR CH 1/16W 47K 1 R4118 ERJ3GEYJ473 M.RESISTOR CH 1/16W 47K 1 R4118 ERJ3GEYJ103 M.RESISTOR CH 1/16W 47K 1 R4118 ERJ3GEYJ101 M.RESISTOR CH 1/16W 100 1 R3614 ERJ3GEYJ672 M.RESISTOR CH 1/16W 47K 1 R4119 ERJ3GEYJ105 M.RESISTOR CH 1/16W 10K 1 R4120 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1 R4121 ERJ3GEYJ122 M.RESISTOR CH 1/16W 120 2 R4120 ERJ3GEYJ103 M.RESISTOR CH 1/16W 15K 1 R4122 ERJ3GEYJ122 M.RESISTOR CH 1/16W 12K 1 R4122 ERJ3GEYJ122 M.RESISTOR CH 1/16W 12K 1 R4122 ERJ3GEYJ103 M.RESISTOR CH 1/16W 0 1				H					-	2
R3606 ERJ3RBD222 M.RESISTOR CH 1/16W 2.2K 1 R4111 ERJ3GEYJ104 M.RESISTOR CH 1/16W 100K 1 R3608 ERJ3GEYJ331 M.RESISTOR CH 1/16W 330 1 R4112 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1 R4112 ERJ3GEYJ153 M.RESISTOR CH 1/16W 10K 1 R4113 ERJ3GEYJ153 M.RESISTOR CH 1/16W 15K 1 R4114 ERJ3GEYJ392 M.RESISTOR CH 1/16W 3.9K 1 R4114 ERJ3GEYJ392 M.RESISTOR CH 1/16W 3.9K 1 R4115_16 ERJ3GEYJ392 M.RESISTOR CH 1/16W 10K 2 R4115_16 ERJ3GEYG682 M.RESISTOR CH 1/16W 10K 2 R4117 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 2 R4117 ERJ3GEYJ473 M.RESISTOR CH 1/16W 10K 1 R4118 ERJ3GEYJ473 M.RESISTOR CH 1/16W 10K 1 R4118 ERJ3GEYJ101 M.RESISTOR CH 1/16W 10D 1 R4119 ERJ3GEYJ101 M.RESISTOR CH 1/16W 1.5M 1 R4119 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1 R4120 ERJ3GEYJ102 M.RESISTOR CH 1/16W 10K 1 R4120 ERJ3GEYJ102 M.RESISTOR CH 1/16W 10K 1 R4120 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1 R4122 ERJ3GEYJ103 M.RESISTOR CH 1/16W 0 1 R4123 ERJ3RBD682 M.RESISTOR CH 1/16W 0.8K 1 R4124 ERJ3RBD272 M.RESISTOR CH 1/16W 0.8K 1 R4124 ERJ3RBD272 M.RESISTOR CH 1/16W 0.8K 1 R4125 ERJ3GEYJ103 M.RESISTOR CH 1/16W 0.0K 1 R4125 ERJ3GEYJ103 M.RESISTOR CH 1/16W 0.0K 1 R4125 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1 R4125									+	1
R3608 ERJ3GEYJ331 M.RESISTOR CH 1/16W 330 1 R4112 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1 R3609 ERJ3GEYJ562 M.RESISTOR CH 1/16W 5.6K 1 R4113 ERJ3GEYJ153 M.RESISTOR CH 1/16W 15K 1 R4114 ERJ3GEYJ392 M.RESISTOR CH 1/16W 3.9K 1 R4114 ERJ3GEYJ392 M.RESISTOR CH 1/16W 3.9K 1 R4115,16 ERJ3GEYJ392 M.RESISTOR CH 1/16W 10K 2 R4115,16 ERJ3GEYG102 M.RESISTOR CH 1/16W 11K 1 R4117 ERJ3GEYJ473 M.RESISTOR CH 1/16W 4.7K 1 R4118 ERJ3GEYJ473 M.RESISTOR CH 1/16W 4.7K 1 R4118 ERJ3GEYJ101 M.RESISTOR CH 1/16W 100 1 R3614-16 ERJ3GEYG102 M.RESISTOR CH 1/16W 4.7K 1 R4119 ERJ3GEYJ103 M.RESISTOR CH 1/16W 1.5M 1 R3619 ERJ3GEYG102 M.RESISTOR CH 1/16W 4.7K 1 R4120 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1 R3619,20 ERJ3GEYJ121 M.RESISTOR CH 1/16W 120 2 R4121 ERJ3GEYJ153 M.RESISTOR CH 1/16W 10K 1 R3621 ERJ3GEYJ102 M.RESISTOR CH 1/16W 1.2K 1 R4122 ERJ3GEYJ103 M.RESISTOR CH 1/16W 0 1 R3622 ERJ3GEYJ102 M.RESISTOR CH 1/16W 1.6K 1 R4123 ERJ3RB0682 M.RESISTOR CH 1/16W 0.8K 1 R3624 ERJ3GEYJ000 M.RESISTOR CH 1/16W 3.9K 1 R4125 ERJ3GEYJ103 M.RESISTOR CH 1/16W 0.0K 1 R4125 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1 R4125 ERJ3GEYJ103 M.RESISTOR CH 1/16W 0.0K 1 R4125 ERJ3GEYJ103 M.RESISTOR									-	1
R3609 ERJ3GEYJ562 M.RESISTOR CH 1/16W 5.6K 1 R4113 ERJ3GEYJ153 M.RESISTOR CH 1/16W 15K 1 R3610 ERJ3GEYJ392 M.RESISTOR CH 1/16W 3.9K 1 R4114 ERJ3GEYJ392 M.RESISTOR CH 1/16W 3.9K 1 R4115,16 ERJ3GEYG82 M.RESISTOR CH 1/16W 6.8K 1 R4115,16 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 2 R3612 ERJ3GEYG102 M.RESISTOR CH 1/16W 4.7K 1 R4117 ERJ3GEYJ473 M.RESISTOR CH 1/16W 4.7K 1 R4118 ERJ3GEYJ101 M.RESISTOR CH 1/16W 100 1 R3614-16 ERJ3GEYG102 M.RESISTOR CH 1/16W 4.7K 1 R4119 ERJ3GEYJ103 M.RESISTOR CH 1/16W 1.5M 1 R36167 ERJ3GEYG472 M.RESISTOR CH 1/16W 4.7K 1 R4120 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1 R3619,20 ERJ3GEYJ121 M.RESISTOR CH 1/16W 120 2 R4121 ERJ3GEYJ153 M.RESISTOR CH 1/16W 15K 1 R3621 ERJ3GEYJ162 M.RESISTOR CH 1/16W 1.6K 1 R4122 ERJ3GEYJ162 M.RESISTOR CH 1/16W 0.8K 1 R3622 ERJ3GEYJ392 M.RESISTOR CH 1/16W 3.9K 1 R4124 ERJ3RBD82 M.RESISTOR CH 1/16W 0.8K 1 R3624 ERJ3GEY0700 M.RESISTOR CH 1/16W 3.9K 1 R4125 ERJ3GEYJ103 M.RESISTOR CH 1/16W 0.0K 1 R4125 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1 R4125 ERJ3GEYJ103 M.RESISTOR CH 1/16W 0.0K 1 R4125 ERJ3GEYJ103 M.RES									+	1
R3610 ERJ3GEYJ392 M.RESISTOR CH 1/16W 3.9K 1 R4114 ERJ3GEYJ392 M.RESISTOR CH 1/16W 3.9K 1 R3611 ERJ3GEYG682 M.RESISTOR CH 1/16W 6.8K 1 R4115,16 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 2 R3612 ERJ3GEYG102 M.RESISTOR CH 1/16W 4.7K 1 R4118 ERJ3GEYJ473 M.RESISTOR CH 1/16W 4.7K 1 R3614-16 ERJ3GEYG472 M.RESISTOR CH 1/16W 4.7K 1 R4118 ERJ3GEYJ101 M.RESISTOR CH 1/16W 100 1 R3617 ERJ3GEYG472 M.RESISTOR CH 1/16W 4.7K 1 R4120 ERJ3GEYJ155 M.RESISTOR CH 1/16W 10K 1 R3619,20 ERJ3GEYJ121 M.RESISTOR CH 1/16W 120 2 R4121 ERJ3GEYJ153 M.RESISTOR CH 1/16W 15K 1 R3622 ERJ3GEYJ162 M.RESISTOR CH 1/16W 1.6K 1 R4123 ERJ3GEYJ162 M.RESISTOR CH 1/16W 0.8K 1 R3623 ERJ3GEYJ392 M.RESISTOR CH 1/16W 3.9K 1 R4124 ERJ3GEYJ103 M.RESISTOR CH 1/16W 0.7K 1 R4125 ERJ3GEYJ103 M.RESISTOR CH 1/16W 0.7K 1 R4125 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1 R4125 ERJ3GEYJ103 M.RESISTOR CH 1/16W 1									-	1
R3611 ERJ3GEYG682 M.RESISTOR CH 1/16W 6.8K 1 1 R4115,16 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 2 R3612 ERJ3GEYG102 M.RESISTOR CH 1/16W 1K 1 R3613 ERJ3GEYG472 M.RESISTOR CH 1/16W 4.7K 1 R4118 ERJ3GEYJ101 M.RESISTOR CH 1/16W 10O 1 R3614-16 ERJ3GEYG102 M.RESISTOR CH 1/16W 1K 3 R4119 ERJ3GEYJ155 M.RESISTOR CH 1/16W 1.5M 1 R3617 ERJ3GEYG102 M.RESISTOR CH 1/16W 4.7K 1 R4120 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10O 1 R3619,20 ERJ3GEYJ121 M.RESISTOR CH 1/16W 12O 2 R4121 ERJ3GEYJ153 M.RESISTOR CH 1/16W 15K 1 R3621 ERJ3GEYJ122 M.RESISTOR CH 1/16W 1.2K 1 R4122 ERJ3GEYJ103 M.RESISTOR CH 1/16W 0 1 R3622 ERJ3GEYJ162 M.RESISTOR CH 1/16W 1.6K 1 R4123 ERJ3GEYJ103 M.RESISTOR CH 1/16W 0.8K 1 R3623 ERJ3GEYJ392 M.RESISTOR CH 1/16W 3.9K 1 R4124 ERJ3GEYJ103 M.RESISTOR CH 1/16W 0.7K 1 R4125 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1				-		I				1
R3613 ERJ3GEYG472 M.RESISTOR CH 1/16W 4.7K 1 R4118 ERJ3GEYJ101 M.RESISTOR CH 1/16W 100 1 R4119 ERJ3GEYG102 M.RESISTOR CH 1/16W 11 M.RESISTOR CH 1/16W 11 M.RESISTOR CH 1/16W 11 M.RESISTOR CH 1/16W 11 M.RESISTOR CH 1/16W 11 M.RESISTOR CH 1/16W 11 M.RESISTOR CH 1/16W 12 M.RESIS	I1 ERJ			1		R4115,16				2
R3614-16 ERJ3GEYG102 M.RESISTOR CH 1/16W 1K 3 R4119 ERJ3GEYJ155 M.RESISTOR CH 1/16W 1.5M 1 R3617 ERJ3GEYG472 M.RESISTOR CH 1/16W 4.7K 1 R4120 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1 R3619,20 ERJ3GEYJ121 M.RESISTOR CH 1/16W 120 2 R4121 ERJ3GEYJ153 M.RESISTOR CH 1/16W 15K 1 R3621 ERJ3GEYJ122 M.RESISTOR CH 1/16W 1.2K 1 R4122 ERJ3GEYJ080 M.RESISTOR CH 1/16W 0 1 R3622 ERJ3GEYJ162 M.RESISTOR CH 1/16W 1.6K 1 R4123 ERJ3RBD682 M.RESISTOR CH 1/16W 6.8K 1 R3623 ERJ3GEYJ392 M.RESISTOR CH 1/16W 3.9K 1 R4124 ERJ3GEYJ103 M.RESISTOR CH 1/16W 2.7K 1 R3624 ERJ3GEY0R00 M.RESISTOR CH 1/16W 0 1 R4125 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1	12 ERJ	RJ3GEYG102	M.RESISTOR CH 1/16W 1K	- 1		R4117	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K		1
R3617 ERJ3GEYG472 M.RESISTOR CH 1/16W 4.7K 1 R4120 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1 R3619,20 ERJ3GEYJ121 M.RESISTOR CH 1/16W 120 2 R4121 ERJ3GEYJ153 M.RESISTOR CH 1/16W 15K 1 R3621 ERJ3GEYJ122 M.RESISTOR CH 1/16W 1.2K 1 R4122 ERJ3GEY0R00 M.RESISTOR CH 1/16W 0 1 R3622 ERJ3GEYJ162 M.RESISTOR CH 1/16W 1.6K 1 R4123 ERJ3RBD682 M.RESISTOR CH 1/16W 6.8K 1 R3623 ERJ3GEYJ392 M.RESISTOR CH 1/16W 3.9K 1 R4124 ERJ3GEYJ103 M.RESISTOR CH 1/16W 2.7K 1 R3624 ERJ3GEY0R00 M.RESISTOR CH 1/16W 0 1 R4125 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1			M.RESISTOR CH 1/16W 4.7K			R4118	ERJ3GEYJ101			1
R3619,20 ERJ3GEYJ121 M.RESISTOR CH 1/16W 120 2 R3621 ERJ3GEYJ122 M.RESISTOR CH 1/16W 1.2K 1 R3622 ERJ3GEYJ162 M.RESISTOR CH 1/16W 1.6K 1 R3623 ERJ3GEYJ392 M.RESISTOR CH 1/16W 3.9K 1 R3624 ERJ3GEY0R00 M.RESISTOR CH 1/16W 3.9K 1 R3624 ERJ3GEY0R00 M.RESISTOR CH 1/16W 0 1 R3624 ERJ3GEY0R00 M.RESISTOR CH 1/16W 0 1						I			1	1
R3621 ERJ3GEYJ122 M.RESISTOR CH 1/16W 1.2K 1 R4122 ERJ3GEY0R00 M.RESISTOR CH 1/16W 0 1 R3622 ERJ3GEYJ162 M.RESISTOR CH 1/16W 1.6K 1 R4123 ERJ3RBD682 M.RESISTOR CH 1/16W 6.8K 1 R3623 ERJ3GEYJ392 M.RESISTOR CH 1/16W 3.9K 1 R4124 ERJ3RBD272 M.RESISTOR CH 1/16W 2.7K 1 R3624 ERJ3GEY0R00 M.RESISTOR CH 1/16W 0 1 R4125 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1						I			-	1
R3622 ERJ3GEYJ162 M.RESISTOR CH 1/16W 1.6K 1 R4123 ERJ3RBD682 M.RESISTOR CH 1/16W 6.8K 1 R3623 ERJ3GEYJ392 M.RESISTOR CH 1/16W 3.9K 1 R4124 ERJ3RBD272 M.RESISTOR CH 1/16W 2.7K 1 R3624 ERJ3GEY0R00 M.RESISTOR CH 1/16W 0 1 R4125 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1				_					1	1
R3623 ERJ3GEYJ392 M.RESISTOR CH 1/16W 3.9K 1 R4124 ERJ3RBD272 M.RESISTOR CH 1/16W 2.7K 1 R3624 ERJ3GEY0R00 M.RESISTOR CH 1/16W 0 1 R4125 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1						I			-	1
R3624 ERJ3GEY0R00 M.RESISTOR CH 1/16W 0 1 R4125 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 1				_					-	1
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pc	s Remarks
R4127	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1		R6034	ERJ3RBD473	M.RESISTOR CH 1/16W 47K		1
R4128	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1		R6035	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K		1
R4129	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1		R6036	D1H84734A008	COMBI.R-R 47K		1
R4130	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1		R6038	ERJ3RBD273	M.RESISTOR CH 1/16W 27K		1
R4131	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	1		R6039	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ļ.,	1
R4132	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1		R6040	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ļ.,	1
R4133	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R6041	D1H84734A008	COMBI.R-R 47K		1
R4134	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1		R6042	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100		1
R4135	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R6044	EXB24V101J	COMBI.R-R 100		
R4136,37	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2		R6045	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	H.	
R4138	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R6046,47	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	2
R4139	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R6048	EXB24V473J	COMBLE R 47K	١.	
R4140 R4141	ERJ3GEYJ155 ERJ3GEYJ103	M.RESISTOR CH 1/16W 1.5M M.RESISTOR CH 1/16W 10K	1		R6049 R6050	EXB24V101J ERJ3GEYJ103	COMBI.R-R 100 M.RESISTOR CH 1/16W 10K	١.	1
R4200,01	ERJ6RBD472	M.RESISTOR CH 1/10W 10K	2		R6051	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	١.	
R4202	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R6052,53	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	١.	
R4203	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1		R6054	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	-	
R4204	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R6055	EXB24V103J	COMBI.R-R 10K	٠.	
R4206	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R6056	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	١.	1
R4207,08	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2		R6057,58	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	2
R4209	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1		R6059	EXB24V101J	COMBI.R-R 100	T.	1
R4210	ERJ3RBD111	M.RESISTOR CH 1/16W 110	1		R6060	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	Τ.	1
R4211	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1		R6062	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	T.	1
R4212	ERJ3RBD111	M.RESISTOR CH 1/16W 110	1		R6063	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	Τ.	1
R4213-17	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5		R6064-68	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330		5
R4218,19	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2		R6069	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	T.	1
R4220	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1		R6070	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	Τ.	1
R4221	ERJ3RBD111	M.RESISTOR CH 1/16W 110	1		R6073,74	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	2
R4222	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1		R6079	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	1
R4223	ERJ3RBD111	M.RESISTOR CH 1/16W 110	1		R6080	EXB24V101J	COMBI.R-R 100		1
R4224-28	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5		R6081-85	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100		5
R4229,30	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	2		R6086,87	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	2
R4231	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R6103	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	•	1
R4232	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1		R6104-09	D1H84734A008	COMBI.R-R 47K	6	6
R4233	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R6110	EXB24V473J	COMBI.R-R 47K		1
R4234	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R6111	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K		1
R4235,36	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2		R6113	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K		
R4237,38	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2		R6114	D1H84734A008	COMBI.R-R 47K		
R4400,01	ERJ14YJ682	M.RESISTOR CH 1/4W 6.8K	2		R6117	EXB24V473J	COMBI.R-R 47K	•	1
R4402	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R6118	D1H84734A008	COMBI.R-R 47K		1
R4403	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R6119	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K		1
R4406	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R6200	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K		1
R4407	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1		R6202	D1H84734A008	COMBI.R-R 47K		
R4408	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R6203,04	D1H810240001	COMBI.R-R 1K	1	
R4409	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1		R6205,06	D1H84734A008	COMBI.R-R 47K	2	2
R4410	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R6209	D1H84734A008	COMBI.R-R 47K	Η.	
R4411	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1		R6210	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	Η.	
R4412 R4415	ERJ3GEYJ222 ERJ3GEYJ103	M.RESISTOR CH 1/16W 2.2K M.RESISTOR CH 1/16W 10K	1		R6212 R6213	ERJ3GEY0R00 ERJ3GEYJ473	M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 47K	H	
R4415 R4416	ERJ3GEYJ103 ERJ3GEYJ151	M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 150	1		R6300,01	ERJ3GEYJ473 ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K M.RESISTOR CH 1/16W 47K	- 2	
R4417	ERJ3GEYJ473	M.RESISTOR CH 1/16W 150 M.RESISTOR CH 1/16W 47K	1		R6302,03	ERJ3GE1J473 ERJ3GEY0R00	M.RESISTOR CH 1/16W 4/K	2	
R4417	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47	1		R6304	D1H84734A008	COMBI.R-R 47K	+	1
R4419	ERJ3GEYJ103	M.RESISTOR CH 1/16W 47	1		R6307-10	D1H84734A008	COMBI.R-R 47K	_	1
R4420	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1		R6313,14	D1H84734A008	COMBI.R-R 47K	+	2
R4422,23	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2		R6315,16	D1H810240001	COMBI.R-R 1K	2	2
R4424	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R6317-20	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	-	1
R4425	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1		R6321,22	D1H84734A008	COMBI.R-R 47K	2	2
R4426	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1		R6323	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	T	1
R4427,28	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2		R6400	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	Τ.	1
R4429-31	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3		R6401	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	1
R4432,33	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2		R6405	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	1
R6001	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R6406	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	1
R6002	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1		R6407-10	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	1
R6004,05	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2		R6500	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	Γ.	1
R6007	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R6501-03	D1H84704A008	COMBI.R-R 47	- 3	3
R6010	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1		R6504	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	Ι.	1
R6015	D1H84734A008	COMBI.R-R 47K	1		R6505-10	D1H84704A008	COMBI.R-R 47	6	5
R6016	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1		R6511	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	<u> </u>	1
R6019	D1H84734A008	COMBI.R-R 47K	1		R6512	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	<u> </u>	1
R6022	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R6513	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	<u> </u>	1
R6025	D1H84734A008	COMBI.R-R 47K	1		R6516	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	Ľ	1
R6029	D1H84734A008	COMBI.R-R 47K	1		R6517-23	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	7
R6030	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1		R7001	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	Ľ	1
R6031	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R7002	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	<u> </u>	1
		ICOMPLD D 471/	1		R7003	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1 .	II.
R6033	D1H84734A008	COMBI.R-R 47K	+ '		11,000			-	
	D1H84734A008	COMBLE-R 4/K	Ľ						

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pc	s Remarks
R7004	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1		R7178	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K		1
R7005	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1		R7179,80	ERJ3RBD471	M.RESISTOR CH 1/16W 470		2
R7006	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1		R7181	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100		1
R7088 R7089	ERJ3GEYJ333 ERJ3RBD472	M.RESISTOR CH 1/16W 33K M.RESISTOR CH 1/16W 4.7K	1		R7182 R7183	ERJ3RBD242 ERJ3GEYJ101	M.RESISTOR CH 1/16W 2.4K M.RESISTOR CH 1/16W 100		1
R7090	ERJ3RBD751	M.RESISTOR CH 1/16W 750	1		R7184	ERJ3GEYJ202	M.RESISTOR CH 1/16W 2K	-	1
R7091	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1		R7185	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	t	1
R7092	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1		R7186	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K		1
R7093	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1		R7187	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K		1
R7094	ERJ3RED470	M.RESISTOR CH 1/16W 47	1		R7188	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K		1
R7095	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1		R7189	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K		1
R7096	ERJ3RED470	M.RESISTOR CH 1/16W 47	1		R7190	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	-	1
R7097 R7098	ERJ3RBD101 ERJ3RED150	M.RESISTOR CH 1/16W 100 M.RESISTOR CH 1/16W 15	1		R7192 R7197	ERJ3RBD222 ERJ3GEYJ223	M.RESISTOR CH 1/16W 2.2K M.RESISTOR CH 1/16W 22K	-	1
R7096 R7099	D1H84734A008	COMBI.R-R 47K	1		R7197	ERJ3GE1J223 ERJ3GEYJ220	M.RESISTOR CH 1/16W 22K		1
R7102	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R7202	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0		1
R7103	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R7203	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	1
R7104,05	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2		R7204,05	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	T:	2
R7106,07	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2		R7206,07	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K		2
R7108	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R7208	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K		1
R7109	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R7209	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K		1
R7110	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1		R7210	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10		1
R7111,12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2		R7211,12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	H	
	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	3		R7214-16	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	-	3
R7117 R7118	ERJ3GEYJ101 ERJ3GEYJ163	M.RESISTOR CH 1/16W 100 M.RESISTOR CH 1/16W 16K	1		R7217 R7218	ERJ3GEYJ101 ERJ3GEYJ163	M.RESISTOR CH 1/16W 100 M.RESISTOR CH 1/16W 16K	+	1
R7116 R7119	ERJ3GEYJ202	M.RESISTOR CH 1/16W 16K	1		R7219	ERJ3GEYJ202	M.RESISTOR CH 1/16W 16K	1	1
R7119 R7121	ERJ3GEYG472	M.RESISTOR CH 1/16W 2K	1		R7219	ERJ3GE13202 ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	1
R7123	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R7223	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	1
R7124	ERJ3GEYJ510	M.RESISTOR CH 1/16W 51	1		R7224	ERJ3GEYJ510	M.RESISTOR CH 1/16W 51		1
R7125	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R7225	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100		1
R7126	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R7226	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K		1
R7127,28	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2		R7227,28	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	2
R7130	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R7230	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100		1
R7131	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1		R7231	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K		1
R7132 R7133	ERJ3GEYJ222 ERJ3GEYJ101	M.RESISTOR CH 1/16W 2.2K M.RESISTOR CH 1/16W 100	1		R7232 R7233	ERJ3GEYJ222 ERJ3GEYJ101	M.RESISTOR CH 1/16W 2.2K M.RESISTOR CH 1/16W 100		1
	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R7234	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0		1
R7135	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1		R7235	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	1
	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1		R7236	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	t	1
R7137	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R7237	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K		1
R7138	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1		R7238	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K		1
R7139	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1		R7239	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K		1
R7140	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1		R7240	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K		1
	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2		R7241,42	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K		2
R7143 R7144	ERJ3GEYJ222 ERJ3GEYG682	M.RESISTOR CH 1/16W 2.2K	1		R7243 R7244	ERJ3GEYJ222 ERJ3GEYG682	M.RESISTOR CH 1/16W 2.2K M.RESISTOR CH 1/16W 6.8K		1
	ERJ3GE1G002 ERJ3GEYJ222	M.RESISTOR CH 1/16W 6.8K M.RESISTOR CH 1/16W 2.2K	2		R7244 R7245,46	ERJ3GE1G002 ERJ3GEYJ222	M.RESISTOR CH 1/16W 6.6K	1	2
		M.RESISTOR CH 1/16W 100	1		R7247	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	T.	1
		M.RESISTOR CH 1/16W 1K	1		R7248	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	1
		M.RESISTOR CH 1/16W 22K	1		R7249	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K		1
R7150	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R7250	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K		1
R7151,52	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2		R7251,52	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	:	2
R7153	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R7253	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K		1
R7154	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1		R7254	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K		1
R7155	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1		R7255	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	1
R7157 R7160	ERJ3GEYJ101 ERJ3GEYJ103	M.RESISTOR CH 1/16W 100 M.RESISTOR CH 1/16W 10K	1		R7257 R7260	ERJ3GEYJ101 ERJ3GEYJ103	M.RESISTOR CH 1/16W 100 M.RESISTOR CH 1/16W 10K	H	1
R7160 R7161	ERJ3GEYJ103 ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R7261	ERJ3GEYJ103	M.RESISTOR CH 1/16W 100	1	1
R7161	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R7262	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K		1
R7163	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R7263	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100		1
R7164	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R7264	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	T	1
R7165	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R7265	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	L	1
R7166	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R7266	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K		1
R7167	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R7267	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100		1
R7168	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1		R7268	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	1
R7169	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1		R7269	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	H	1
R7170	ERJ3GEYJ914	M.RESISTOR CH 1/16W 910K	1		R7270 R7271	ERJ3GEYJ914	M.RESISTOR CH 1/16W 910K	-	1
R7171 R7172	ERJ3RBD203 ERJ3RBD432	M.RESISTOR CH 1/16W 20K M.RESISTOR CH 1/16W 4.3K	1		R7271 R7272	ERJ3RBD203 ERJ3RBD432	M.RESISTOR CH 1/16W 20K M.RESISTOR CH 1/16W 4.3K		1
R7172 R7173	ERJ3RBD512	M.RESISTOR CH 1/16W 4.3K	1		R7273	ERJ3RBD512	M.RESISTOR CH 1/16W 4.3K	1	1
R7174	ERJ3RBD751	M.RESISTOR CH 1/16W 750	1		R7274	ERJ3RBD751	M.RESISTOR CH 1/16W 750	1	1
R7175	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	1		R7275	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	t	1
R7176	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1		R7276	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K		1
	ED 100E)/1404	M.RESISTOR CH 1/16W 100	1		R7277	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100		1
R7177	ERJ3GEYJ101		┷ॱ						
R7177	ERJ3GEYJ101								

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Po	s Remarks
R7278	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1		R7378	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K		1
R7279,80	ERJ3RBD471	M.RESISTOR CH 1/16W 470	2		R7379,80	ERJ3RBD471	M.RESISTOR CH 1/16W 470		2
R7281	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R7381	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	L	1
R7282	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1		R7382	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	Ļ	1
R7283	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R7383	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	+	1
R7284	ERJ3GEYJ202	M.RESISTOR CH 1/16W 2K	1		R7384	ERJ3GEYJ202	M.RESISTOR CH 1/16W 2K	+	1
R7285	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1		R7385 R7386	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	+	1
R7286 R7287	ERJ3GEYG102 ERJ3GEYJ223	M.RESISTOR CH 1/16W 1K M.RESISTOR CH 1/16W 22K	1		R7387	ERJ3GEYG102 ERJ3GEYJ223	M.RESISTOR CH 1/16W 1K M.RESISTOR CH 1/16W 22K	+	1
R7288	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R7388	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	+	1
R7289	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R7389	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	t	1
R7290	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1		R7390	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	t	1
R7292	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1		R7392	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	T	1
R7297	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1		R7397	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	T	1
R7298	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1		R7398	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	T	1
R7302	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R7501,02	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K		2
R7303	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R7503	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K		1
R7304,05	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2		R7504	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K		1
R7306,07	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2		R7506	ERJ3RBD104	M.RESISTOR CH 1/16W 100K		1
R7308	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R7507	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	L	1
R7309	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R7508	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	1
R7310	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1		R7509	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	1
R7311,12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2		R7511	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	+	1
R7314-16	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	3		R7512	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	+	1
R7317 R7318	ERJ3GEYJ101 ERJ3GEYJ163	M.RESISTOR CH 1/16W 100 M.RESISTOR CH 1/16W 16K	1		R7513 R7514	ERJ3GEYJ683 ERJ3GEYJ153	M.RESISTOR CH 1/16W 68K M.RESISTOR CH 1/16W 15K	1	1
R7318	ERJ3GEYJ163 ERJ3GEYJ202	M.RESISTOR CH 1/16W 16K M.RESISTOR CH 1/16W 2K	1		R7514 R7516	ERJ3GEYJ153 ERJ3RBD104	M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 100K	H	1
R7319	ERJ3GEYJ202 ERJ3GEYG472	M.RESISTOR CH 1/16W 2K M.RESISTOR CH 1/16W 4.7K	1		R7516 R7517,18	ERJ3RBD104 ERJ3GEYJ103	M.RESISTOR CH 1/16W 100K M.RESISTOR CH 1/16W 10K	t	2
R7323	ERJ3GEYJ101	M.RESISTOR CH 1/16W 4.7K	1		R7517,10	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	+	1
R7324	ERJ3GEYJ510	M.RESISTOR CH 1/16W 51	1		R7520	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	t	1
R7325	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R7521	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	t	1
R7326	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R7522	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	T	1
R7327,28	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2		R7523	ERJ3RBD104	M.RESISTOR CH 1/16W 100K		1
R7330	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R7524	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K		1
R7331	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1		R7525	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K		1
R7332	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R7526	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K		1
R7333	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R7527	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K		1
R7334	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R7528	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	L	1
R7335	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1		R7529	ERJ3RBD104	M.RESISTOR CH 1/16W 100K		1
R7336	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1		R7530	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	Ļ	1
R7337	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R7531	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	+	1
R7338	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1		R7532	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	+	1
R7339 R7340	ERJ3GEYJ203 ERJ3GEYJ683	M.RESISTOR CH 1/16W 20K M.RESISTOR CH 1/16W 68K	1		R7533 R7534	ERJ3RBD272 ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K M.RESISTOR CH 1/16W 2.7K	+	1
R7341,42	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2		R7535	ERJ3RBD104	M.RESISTOR CH 1/16W 2.7K	t	1
R7343	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R8001	EXB24V473J	COMBI.R-R 47K	+	1
R7344	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1		R8002	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	t	1
R7345,46	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2		R8007	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	t	1
		M.RESISTOR CH 1/16W 100	1		R8010	D1H84734A008	COMBI.R-R 47K	t	1
R7348	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R8017	ERJ3RBD432	M.RESISTOR CH 1/16W 4.3K	T	1
R7349	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1		R8018	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K		1
R7350	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R8049	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	I	1
R7351,52	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2		R8050	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	L	1
R7353	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R8051,52	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	2
R7354	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1		R8053	EXB24V101J	COMBI.R-R 100	1	1
R7355	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1		R8055	D1H810140001	COMBI.R-R 100	-	1
R7357	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R8059	ERJ3RBD433	M.RESISTOR CH 1/16W 43K	+	1
R7360	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R8060	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	╁	1
R7361	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R8061	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	1
R7362 R7363	ERJ3GEYJ103 ERJ3GEYJ101	M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 100	1		R8062 R8063.64	ERJ3GEYJ433 ERJ3GEYJ103	M.RESISTOR CH 1/16W 43K M.RESISTOR CH 1/16W 10K	1	2
R7364	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R8065	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	H	1
R7365	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R8066	ERJ3GEYJ202	M.RESISTOR CH 1/16W 2K	t	1
R7366	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R8067	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	t	1
R7367	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R8096	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	t	1
R7368	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1		R8097	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	t	1
R7369	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1		R8098	ERJ3GEYJ512	M.RESISTOR CH 1/16W 5.1K	T	1
R7370	ERJ3GEYJ914	M.RESISTOR CH 1/16W 910K	1		R8099	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M		1
R7371	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	1		R8100,01	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K		2
R7372	ERJ3RBD432	M.RESISTOR CH 1/16W 4.3K	1		R8104	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0		1
R7373	ERJ3RBD512	M.RESISTOR CH 1/16W 5.1K	1		R8106	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	L	1
R7374	ERJ3RBD751	M.RESISTOR CH 1/16W 750	1		R8111	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M		1
R7375	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	1		R8112,13	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	2
R7376	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1		R8121	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	1
R7377	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R8123	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1	1
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R8124	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R8445	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R8125	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R8446	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R8131	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R8447	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R8132	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R8448	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R8134,35	ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	2		R8449	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R8138	ERJ3GEYJ623	M.RESISTOR CH 1/16W 62K	1		R8450	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R8139	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1		R8451	D4B332500001	THERMISTOR	1	
R8152	ERJ3RBD431	M.RESISTOR CH 1/16W 430	1		R8452	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R8182	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1		R8453	ERJ3GEYJ303	M.RESISTOR CH 1/16W 30K	1	
R8183	ERJ3GEYJ752	M.RESISTOR CH 1/16W 7.5K	1		R8454	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1	
R8184 R8186	ERJ3GEYJ562 ERJ3GEYJ684	M.RESISTOR CH 1/16W 5.6K M.RESISTOR CH 1/16W 680K	1		R8455	ERJ3GEY0R00 ERJ3GEYJ303	M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 30K	1	
R8187	ERJ3GE1J004 ERJ3GEYJ202	M.RESISTOR CH 1/16W 660K	1		R8456 R8457		M.RESISTOR CH 1/16W 30K	1	
R8188	ERJ3GEYJ103	M.RESISTOR CH 1/16W 2K	1		R8458,59	ERJ3GEYJ203 ERJ3GEY0R00	M.RESISTOR CH 1/16W 20K	2	
R8189	ERJ3GEYJ202	M.RESISTOR CH 1/16W 2K	1		R8460	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R8190	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1		R8550-53	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R8191	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1		R8605	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R8192	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1		R8607	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R8193	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1		R8610	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R8194,95	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2		R8650	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R8196	ERJ3GEYJ512	M.RESISTOR CH 1/16W 5.1K	1		R8651	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R8197,98	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2		R8652	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R8199	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R8653	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R8201,02	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2		R8654	ERJ3GEYJ162	M.RESISTOR CH 1/16W 1.6K	1	
R8203	ERJ3GEYJ303	M.RESISTOR CH 1/16W 30K	1		R8655	ERJ3GEYJ132	M.RESISTOR CH 1/16W 1.3K	1	
R8204	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1		R8656	ERJ3GEYJ363	M.RESISTOR CH 1/16W 36K	1	
R8206	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1		R8660	ERJ3RBD113	M.RESISTOR CH 1/16W 11K	1	
R8223,24	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2		R8661	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R8225	ERJ3GEYJ202	M.RESISTOR CH 1/16W 2K	1		R8662	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R8227	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1		R8663,64	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R8232	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1		R8700,01	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R8233	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1		R8702	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R8235	ERJ3GEYJ362	M.RESISTOR CH 1/16W 3.6K	1		R8703	EXB24V473J	COMBI.R-R 47K	1	
R8248	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1		R8704	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R8249 R8250	ERJ3GEYJ392 ERJ3GEYG472	M.RESISTOR CH 1/16W 3.9K M.RESISTOR CH 1/16W 4.7K	1		R8708 R8709	ERJ3GEY0R00 ERJ3GEYJ101	M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 100	1	
R8251	ERJ3GE1G472 ERJ3GEYG102	M.RESISTOR CH 1/16W 4.7K	1		R8711	D1H84734A008	COMBI.R-R 47K	1	
R8252	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1		R8712	ERJ3GEYJ303	M.RESISTOR CH 1/16W 30K	1	
R8253	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1		R8713	EXB24V101J	COMBI.R-R 100	1	
R8254	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1		R8714,15	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R8255	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R8716,17	EXB24V101J	COMBI.R-R 100	2	
R8256	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1		R8718	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R8259	ERJ3RBD511	M.RESISTOR CH 1/16W 510	1		R8719	EXB24V101J	COMBI.R-R 100	1	
R8263	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R8750-55	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	6	
R8264	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R8756	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R8265	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1		R8757	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R8266	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1		R8758	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R8267	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1		R8759-61	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R8268	ERJ3RBD911	M.RESISTOR CH 1/16W 910	1		R8762	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R8269	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1		R8763,64	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R8270-73	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	4		R8766	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R8276	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R8767	ERJ3RBD393	M.RESISTOR CH 1/16W 39K M.RESISTOR CH 1/16W 22K	1	
R8277 R8281	ERJ3GEYJ203 ERJ3GEYJ271	M.RESISTOR CH 1/16W 20K M.RESISTOR CH 1/16W 270	1		R8768 R8769,70	ERJ3RBD223 ERJ3GEYG102	M.RESISTOR CH 1/16W 22K M.RESISTOR CH 1/16W 1K	2	
R8291	ERJ3GEYJ271 ERJ3GEYJ101	M.RESISTOR CH 1/16W 2/0 M.RESISTOR CH 1/16W 100	1		R8769,70 R8771	ERJ3GEYG102 ERJ3GEYJ222	M.RESISTOR CH 1/16W 1K M.RESISTOR CH 1/16W 2.2K	1	
R8299	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R8772	ERJ3RBD223	M.RESISTOR CH 1/16W 2.2K	1	
R8301	ERJ3RBD201	M.RESISTOR CH 1/16W 0	1		R8773	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R8305	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1		R8774	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R8307	ERJ3RBD271	M.RESISTOR CH 1/16W 270	1		R8775,76	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	
R8308	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R8777,78	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R8309	D1H84734A008	COMBI.R-R 47K	1		R8779	EXB24V473J	COMBI.R-R 47K	1	
R8313	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1		R8785	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R8319	ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	1		R8790	ERDS2TJ103	C.RESISTOR 1/2W 10K	1	
R8320,21	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2		R8800	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R8401	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R8801-03	ERJ3RED750	M.RESISTOR CH 1/16W 75	3	
R8402	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R8804-06	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	3	
R8403	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R8807	ERJ3RBD113	M.RESISTOR CH 1/16W 11K	1	
R8406	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R8808	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R8410	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1		R8810	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R8423	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R8811	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R8427	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R8813	ERJ3RBD201	M.RESISTOR CH 1/16W 200	1	
R8434,35	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2		R8814	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R8438	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R8815	ERJ3GEYJ302	M.RESISTOR CH 1/16W 3K	1	
R8440 R8442	ERJ3GEY0R00 ERJ3GEYG102	M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 1K	1		R8816 R8817	ERJ3RBD123 ERJ3RBD182	M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 1.8K	1	
110442	E1000E10102	MILITERIOTOR OF 1/10W IN	+-		1.001/	E170014DD 102	MINEGIOTOR OF 1/10W 1.0K	+-'	
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Po	cs Remarks	
R8818	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1		C105	ECUM1C334KBN	C.CAPACITOR CH 16V 0.33U		1	
R8819	ERJ3RBD201	M.RESISTOR CH 1/16W 200	1		C106	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U		1	
R8820	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1		C107,08	ECUX1H150JCV	C.CAPACITOR CH 50V 15P		2	
R8821	ERJ3GEYJ302	M.RESISTOR CH 1/16W 3K	1		C110,11	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U		2	
R8822	ERJ3RBD201	M.RESISTOR CH 1/16W 200	1		C113	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U		1	
R8823	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1		C115	EEVHB1C100	E.CAPACITOR 16V 10U		1	
R8824	ERJ3GEYJ302	M.RESISTOR CH 1/16W 3K	1		C117,18	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U		2	
R8825	ERJ3RBD243	M.RESISTOR CH 1/16W 24K	1		C119,20	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P		2	
R8826	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1		C121	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U		1	
R8827	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1		C122	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U		1	
R8828	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1		C125	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U		1	
					C126	EEVHB1C220	E.CAPACITOR 16V 22U	T	1	
RY4000,01	K6B2CDB00010	RELAY	2		C127-29	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	T	3	
					C200,01	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	T	2	
SW6300	VSS0367-04B	SWITCH	1		C203,04	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	T	2	
					C205	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	T	1	
TG3001	EYF6CU	TEST POINT	1		C206	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	T	1	
TG3701	EYF6CU	TEST POINT	1		C207	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	1	
TG7001	EYF6CU	TEST POINT	1		C208,09	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	+	2	
					C210	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	+	1	
TP1	EYF6CU	TEST POINT	1		C211	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	+	1	
TP3001-03	EYF6CU	TEST POINT	3		C212	EEVHB1C220	E.CAPACITOR 16V 22U	+	1	
TP3303-06	EYF6CU	TEST POINT	4		C212	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	+	1	
TP3413-15	EYF6CU	TEST POINT	3		C213	1	C.CAPACITOR CH 50V 0.10	+	2	
TP3413-15	EYF6CU EYF6CU	TEST POINT	1		C214,15 C216	ECUX1C333KBV ECUX1H332KBV	C.CAPACITOR CH 16V 0.0330 C.CAPACITOR CH 50V 3300P	+	1	
			1					+	1	
TP3701	EYF6CU	TEST POINT	<u>.</u>		C217	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	1	
TP4100,01	EYF6CU	TEST POINT	1		C219	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	1	
TP6100	EYF6CU	TEST POINT	H		C220	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	+	4	
TP7101	EYF6CU	TEST POINT	1		C221	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	+	4	
TP7201	EYF6CU	TEST POINT	1		C222	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	+	1	
TP7301	EYF6CU	TEST POINT	1		C223-25	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	_	3	
TP8001	EYF6CU	TEST POINT	1		C226	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	4	1	
					C227	EEVHB1C220	E.CAPACITOR 16V 22U	4	1	
VC6100	VCV0047	TRIMMER	1		C228	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	1	1	
					C229,30	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U		2	
VR3701	EVM7JGA00B52	V.RESISTOR 500	1		C231	EEVHB1C100	E.CAPACITOR 16V 10U		1	
VR4400,01	EVM7JGA00B14	V.RESISTOR 10K	2		C232-37	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U		6	
VR8283	EVM7JGA00B14	V.RESISTOR 10K	1		C238-40	EEVHB1E330P	E.CAPACITOR 25V 33U		3	
					C241	EEVHB1C100	E.CAPACITOR 16V 10U		1	
X3401	VSX0847	CRYSTAL OSCILLATOR	1	H0J270500019	C242	EEVHB1C220	E.CAPACITOR 16V 22U		1	
X6100	VSX0602	CRYSTAL OSCILLATOR	1	H0J327200050	C300,01	EEVHB1H3R3	E.CAPACITOR 50V 3.3U		2	
X6500	VSX0641	CRYSTAL OSCILLATOR	1		C302,03	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U		2	
X8001	H0J120500005	CRYSTAL OSCILLATOR	1		C304	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U		1	
X8002,03	H0J286500009	CRYSTAL OSCILLATOR	2		C305	ECUX1C105KBM	C.CAPACITOR CH 16V 1U		1	
					C306	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U		1	
		MISCELLANEOUS			C307	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	T	1	
					C308,09	EEVHB1E4R7	E.CAPACITOR 25V 4.7U	T	2	
	VMS6507	C.B.A. POST	2	K9ZZ00000592	C310-13	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	T	4	
	XYN26+K6	SCREW	4		C314	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	T	1	
			T i		C315	1	C.CAPACITOR CH 16V 1U	T	1	
					C316	EEVHB1E4R7	E.CAPACITOR 25V 4.7U	+	1	
					C317	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	T	1	
					C318	+	C.CAPACITOR CH 16V 1U	T	1	
					C319-21	EEVHB1E4R7	E.CAPACITOR 25V 4.7U	+	3	
■ E2	VEP82237A	RF & SERVO C.B.A.	1	(RTL)	C322-27	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	-	6	
I	VEP80C23A	SERVO SUB C.B.A.	_	(RTL)FOR VEP82237A	C328,29		C.CAPACITOR CH 50V 0.1U	_	2	
-	. 2. 555257	0000 0.0.7.	t '	/, O	C326,29 C330,31		C.CAPACITOR CH 16V 1U	_	2	
	†		H		C400,01	EEVHB1H3R3	E.CAPACITOR CH 16V 10	-	2	
C1	EEVHB0J330	E.CAPACITOR 6.3V 33U	4		C400,01 C402-05	F1K0J1060002	C.CAPACITOR 50V 5.30 C.CAPACITOR CH6.3V 10U	+	4	
			- 1					+	4	
C2	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1		C406-09	ECUX1H102JV	C.CAPACITOR CH 50V 1000P	-	1	
C4	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1		C410	ECUX1H103KBV EEVHB1H3R3	C.CAPACITOR CH 50V 0.01U	+	1	
C5	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	1		C411		E.CAPACITOR 50V 3.3U	1	1	
C6		C.CAPACITOR CH 25V 0.1U	4		C412	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	+	4	
C7-10	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U			C413-16	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	+	1	
C11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1		C417	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	+	2	
C12	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	1		C418-20	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	+	3	
C13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1		C421	EEVHB1C100	E.CAPACITOR 16V 10U	-	1	
C14	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1		C422	EEVHB1H3R3	E.CAPACITOR 50V 3.3U	+	1	
C18	ECUX1E104ZFV		1		C423	EEVHB1E330P	E.CAPACITOR 25V 33U	-	1	
C20	ECUX1E104ZFV		1		C424	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	1	1	
C25	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1		C425,26	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	2	
C100,01	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2		C600	EEVHB1C220	E.CAPACITOR 16V 22U		1	
C102	EEVHB1C220	E.CAPACITOR 16V 22U	1		C601	EEVHB1E4R7	E.CAPACITOR 25V 4.7U		1	
C103	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	1		C602	EEVHB1E330P	E.CAPACITOR 25V 33U		1	
C104	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1		C603-05	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U		3	
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Po	
C700		C.CAPACITOR CH 16V 1U	1		L800-03	VLQ0650M151	COIL 150UH	Γ	4 G1C151MA0016
C702-16	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	15						
C800-03	VCE0180	E.CAPACITOR	4	F2G1E1010003	P1	VJS3900A024	CONNECTOR (FEMALE)	-	1
C804 C805-08	ECUX1H104KBV VCE0180	C.CAPACITOR CH 50V 0.1U E.CAPACITOR	1	F2G1E1010003	P2 P501	VJS3801D024 VJP3172D002	CONNECTOR (FEMALE) CONNECTOR (MALE)	H	1 K1KA02B00051
C809	VCC0037F432	C.CAPACITOR 432P	1	F2G1E1010003	P501	VJP3172D002 VJP3172D004	CONNECTOR (MALE)	1	1 K1KA04B00007
C810	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1		P503	VJP3172D002	CONNECTOR (MALE)	\vdash	1 K1KA02B00051
C811	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	1		P504	VJP3172D003	CONNECTOR (MALE)	r	1 K1KA03B00006
C812	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1		P505	VJP3518B002	CONNECTOR (MALE)	t	1
C813	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	1		P506	VJP3172D003	CONNECTOR (MALE)		1 K1KA03B00006
C814	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1		P507	VJS3801B010	CONNECTOR (FEMALE)		1
C900,01	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	2		P508	VJP3518B002	CONNECTOR (MALE)	t	1
C902,03	ECA12HG472L	E.CAPACITOR 4700U	2		P509	VJP3172D002	CONNECTOR (MALE)		1 K1KA02B00051
					P510	VJP3518B003	CONNECTOR (MALE)	T	1
D100	MA165	DIODE	1		P511	VJP3518B002	CONNECTOR (MALE)		1
D200	MA142WK	DIODE	1		P512	VJP3172D004	CONNECTOR (MALE)	L	1 K1KA04B00007
D201	MA3J14300L	DIODE	1		P513	VJS3406B015	CONNECTOR (FEMALE)		1
D202	MA142WK	DIODE	1		P514,15	VJS3813C017	CONNECTOR (FEMALE)	T:	2 K1MN17B00012
D203	MA3J14300L	DIODE	1		P516	VJS3406B019	CONNECTOR (FEMALE)		1
D300,01	MA142WK	DIODE	2		P517	VJP1235T	CONNECTOR (MALE) 8P		1
D400-03	MA3J14300L	DIODE	4		P518	VJP3125B002	CONNECTOR (MALE)	l ·	1 K1KA02B00111
D404,05	MA736	DIODE	2		P520	VJS3826A020	CONNECTOR (FEMALE)		1
D600-02	MA142WK	DIODE	3		P521	VJS3801B040	CONNECTOR (FEMALE)		1
D603	MA3J14300L	DIODE	1		P522	VJS3801D024	CONNECTOR (FEMALE)		1
D604	MA3056-L	DIODE	1						
D605	MA3051-M	DIODE	1		Q200-03	2SD1819A-R	TRANSISTOR	Ĺ.	4
D606	MA738	DIODE	1		Q400	2SB1219A-R	TRANSISTOR	L	1
D607	MA142WK	DIODE	1		Q600	2SD1819A-R	TRANSISTOR		1
D700-02	MA142WK	DIODE	3		Q601	2SD1624-S	TRANSISTOR		1
D703,04	MA8047-H	DIODE	2		Q602	2SB1073-R	TRANSISTOR	1	1
D705	MA8062-H	DIODE	1		Q603	2SD1819A-R	TRANSISTOR	L	1
D706,07	MA3043-M	DIODE	2		Q700-02	2SD601-R	TRANSISTOR	:	~
D708	MA3051-M	DIODE	1		Q703-05	2SB1073-R	TRANSISTOR	:	3
D709-20	EC15QS04	DIODE	12		Q800-03	2SB1073-R	TRANSISTOR	ļ ·	4
D800-03	MA728	DIODE	4		Q900	2SB936A-Q	TRANSISTOR	L	1
D804-07	MA736	DIODE	4		Q901	2SD1819A-R	TRANSISTOR		1
D900	MA8051-H	DIODE	1					L	
D901	NSQ03A04	DIODE	1	B0JCPE000013	QR1-R3	UNR521400L	TRANSISTOR-RESISTOR		~
					QR200-02	UNR521300L	TRANSISTOR-RESISTOR	:	3
IC1	AN3732FHQ	IC	1		QR600	UNR521400L	TRANSISTOR-RESISTOR	L	1
IC3	XC62FP3002P	IC	1		QR601	UNR511400L	TRANSISTOR-RESISTOR		1
IC100	TVHC14FT	IC	1		QR602	UNR521400L	TRANSISTOR-RESISTOR		1
IC101	XC62FP3302P	IC	1		QR603	UNR511400L	TRANSISTOR-RESISTOR		1
IC102,03	TVHC74FT	IC	2		QR604,05	UNR521400L	TRANSISTOR-RESISTOR	H	2
IC104	TVHC86FT	IC	1		QR700	UNR521300L	TRANSISTOR-RESISTOR	<u> </u>	1
IC105	S80829ANUP	IC	1		QR701-06	UNR521400L	TRANSISTOR-RESISTOR	-	6
IC106	TC7WU04FU	IC	1		QR707-12	UNR511400L	TRANSISTOR-RESISTOR	_	6
	MN1030F04K	IC IC	1		QR713-18	UNR521300L	TRANSISTOR-RESISTOR	₽'	6
	XC62FP5002P	IC IC	1		D2	ED INCENTAL:	M DEGICTOR OUT 4/46*** 070	1	4
IC201	TA75W393FU	IC IC	1		R3	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	1
	NJM2902V	IC IC	2		R4	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	H	1
IC204	AN3890FBS	IC IC	1	CORRC A000008	R5	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	-	1
IC205	NJM2901M TVHC14FT	IC IC	-	C0BBCA000008	R6 R9-12	ERJ3GEYJ222 ERJ3GEYJ103	M.RESISTOR CH 1/16W 2.2K M.RESISTOR CH 1/16W 10K	H	1
IC206	AN3890FBS	IC IC	1		R9-12 R15	ERJ3GEYJ103 ERJ3GEYG102	M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 1K	H	1
IC207 IC208,09	MDC05	IC IC	2		R15 R16	ERJ3GEYG102 ERJ3GEYJ103		H	1
IC208,09	NJM2902V	IC	1		R17	ERJ6GEY0R00	M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/10W 0	H	1
IC300 IC301,02	AN3841SR	IC IC	2		R17	ERJ3GEY0R00	M.RESISTOR CH 1/10W 0 M.RESISTOR CH 1/16W 0	H	1
IC400	NJM2902V	IC IC	1		R20	ERJ3GEYJ470	M.RESISTOR CH 1/16W 0	H	1
IC400	UPC4558G2	IC IC	1	C0ABBB000131	R21	ERJ3GE1J470 ERJ3GEY0R00	M.RESISTOR CH 1/16W 4/	+	1
IC401	NJM2902V	IC	1	55. IDDD000 10 I	R21	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	H	1
	NJM2901M	IC	1	C0BBCA000008	R35	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	H	1
IC403	UPC4558G2	IC	_	C0ABBB000131	R38,39	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	+	2
IC602	BA6219BFP-Y	IC	1		R100	D1H810140001	COMBI.R-R 100	H	1
IC700	TC4538BF	IC	1		R101	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	H	1
IC701-03	BA6219BFP-Y	IC	3		R102	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	t	1
IC800	TL1451CNS	IC	1		R103	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	H	1
IC900	NJM2904M	IC	1		R104-07	D1H810140001	COMBI.R-R 100	۲.	4
		-	Ė		R108	D1H84734A008	COMBI.R-R 47K	H	1
J1	VJR1094	TERMINAL	1		R109	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	H	1
J500-02	VJR1094	TERMINAL	3		R110	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	H	1
-000 0 <u>z</u>			٦		R113	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	H	1
L1	VLQ0319K101	COIL 100UH	1	G1C101K00022	R114,15	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	Η.	2
L2	VLQ0319K101 VLQ0319K100	COIL 10UH	-	G1C100K00023	R116	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	۲	1
	400 1011100		_			ERJ3GEYJ120	M.RESISTOR CH 1/16W 4/K	۲	1
	VLQ0319K101	COIL 1000H	1	G1C101K00022					
L600	VLQ0319K101	COIL 100UH	1	G1C101K00022	R117	EN03GE13120	W.KESISTOK CIT I/TOW 12	\vdash	1

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Po	s Remarks
R118	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R259	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K		1
R119	D1H810140001	COMBI.R-R 100	1		R260	ERJ8GEYJ681	M.RESISTOR CH 1/8W 680		1
R120	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1		R261	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K		1
R121,22	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	2		R262	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	-	1
R123,24 R125	D1H84734A008 ERJ3GEYG332	COMBI.R-R 47K M.RESISTOR CH 1/16W 3.3K	1		R263 R263	ERJ3GEYJ333 ERJ3GEYJ473	M.RESISTOR CH 1/16W 33K M.RESISTOR CH 1/16W 47K	-	1
R126	D1H84734A008	COMBI.R-R 47K	1		R264	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K		1
R127	D1H810140001	COMBI.R-R 100	1		R265	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	H	1
R128	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R266	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	T	1
R129	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R267	ERJ8GEYJ1R2	M.RESISTOR CH 1/8W 1.2K		1
R130,31	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	2		R268	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K		1
R133	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R269	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K		1
R134	D1H84734A008	COMBI.R-R 47K	1		R270	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K		1
R135	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R271	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K		1
R136	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R272,73	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	-	2
R137	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1		R274	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330		1
R139	ERJ3GEYG102 ERJ3GEYJ331	M.RESISTOR CH 1/16W 1K	1		R275,76 R300	ERJ3GEYG471 ERJ6RBD333	M.RESISTOR CH 1/16W 470	+	4
R140 R142	ERJ3GEYJ473	M.RESISTOR CH 1/16W 330 M.RESISTOR CH 1/16W 47K	1		R301	ERJ3GEYJ333	M.RESISTOR CH 1/10W 33K M.RESISTOR CH 1/16W 33K	+	1
R143	ERJ3GEYJ153	M.RESISTOR CH 1/16W 47K	1		R302	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	-	1
R200	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1		R303	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	+	1
R201	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1		R304	ERJ6RBD223	M.RESISTOR CH 1/10W 22K		1
R202	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R305,06	ERJ6RBD153	M.RESISTOR CH 1/10W 15K		2
R203	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1		R307	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	t	1
R204	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R308-11	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K		4
R205	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1		R313	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	l	1
R206	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R314	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K		1
R207	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R315	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K		1
R208	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1		R316	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K		1
R209	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R317	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K		1
R210	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1		R318	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	1
R211	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R319	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K		1
R212 R213	ERJ3GEYG102 ERJ3GEYG472	M.RESISTOR CH 1/16W 1K	1		R320 R322-25	ERJ3GEYG472 ERJ8GEYJ1R0	M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/8W 1		1
R214	ERJ6RBD153	M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/10W 15K	1		R326-31	ERJ3GEYJ330	M.RESISTOR CH 1/8W 1 M.RESISTOR CH 1/16W 33	+	6
R214	ERJ3GEYJ333	M.RESISTOR CH 1/16W 13K	1		R332	ERJ3GEYG471	M.RESISTOR CH 1/16W 470		1
R216	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1		R333	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	+	1
R217	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1		R334	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	t	1
R218	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R335	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270		1
R219	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1		R400-03	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	Τ.	4
R220-22	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3		R404,05	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K		2
R223	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R406,07	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K		2
R224	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1		R408-11	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K		4
R225	ERJ8GEYJ681	M.RESISTOR CH 1/8W 680	1		R412-16	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K		5
R226	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1		R417	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	1
R227	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K M.RESISTOR CH 1/16W 82K	1		R418	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	╫	1
R228 R229	ERJ3GEYJ823 ERJ3GEYJ473	M.RESISTOR CH 1/16W 62K	1		R419-22 R424-27	ERJ3GEYJ103 ERJ3GEYJ184	M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 180K	-	4
R230		M.RESISTOR CH 1/16W 4/K	1		R424-27	ERJ3GE13164 ERJ3GEYG102	M.RESISTOR CH 1/16W 160K	۲	1
R231		M.RESISTOR CH 1/16W 4.7K	1		R429-32	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	+	4
R232		M.RESISTOR CH 1/8W 1	1		R433	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K		1
R233	ERJ8GEYJ1R2	M.RESISTOR CH 1/8W 1.2K	1		R434	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	l	1
R234,35	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2		R435	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K		1
R236	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R436	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	L	1
R237	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1		R437	ERJ3RBD821	M.RESISTOR CH 1/16W 820	L	1
R238	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R438	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330		1
R239	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R439	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	-	1
R240	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1		R500	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	-	1
R241	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R501	D1H84734A008	COMBLE R 47K	-	1
R242	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1		R502	D1H810140001	COMBI.R-R 100	-	1
R243 R244	ERJ3GEYJ103 ERJ3GEYJ123	M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 12K	1		R600 R601	ERJ3GEYJ223 ERJ3GEYJ103	M.RESISTOR CH 1/16W 22K M.RESISTOR CH 1/16W 10K	+	1
R245	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1		R602	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	-	1
R246	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R603	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	-	1
R247	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1		R604	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	l	1
R248	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R605	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	t	1
R249	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		R606	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K		1
R250	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R608	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	l	1
R251	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1		R611	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K		1
R253	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1		R613	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	L	1
R254	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1		R614,15	ERJ8GEYJ101	M.RESISTOR CH 1/8W 100		2
R255	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R617	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0		1
R256	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1		R619	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	1
R257	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1		R621	ERJ8GEYJ300	M.RESISTOR CH 1/8W 30	1	1
R258	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R622-25	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	4
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Po	s Remarks
R626,27	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2		C126,27	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U		2
R628,29	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2		C128-31	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U		4
R630	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		C132-34	ECUX1A105KBV	C.CAPACITOR CH 10V 1U		3
R631	ERJ8GEYJ471	M.RESISTOR CH 1/8W 470	1		C135	ECUX1H101JCV	C.CAPACITOR CH 50V 100P		1
R632	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		C136	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	T	1
R633	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1		C137	ECUX1H101JCV	C.CAPACITOR CH 50V 100P		1
R634	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		C138	ECUX1A105KBV	C.CAPACITOR CH 10V 1U		1
R635	D1H810240001	COMBI.R-R 100	1		C139,40	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	+	2
R636	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		C141	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	+	1
		M.RESISTOR CH 1/16W 47K	1			F1J0J475A006		+	3
R700	ERJ3GEYJ473		1		C206-08			-	2
R701	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	_		C209,10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U		
R702-04	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3		C211,12	F1J0J475A006	C.CAPACITOR CH6.3V 1U	-	2
R705-07	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	3		C213	ECST1AY106Z	T.CAPACITOR CH 10V 10U	-	1
R708-10	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	3		C214-17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U		4
R711-13	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3		C218	F1J0J475A006	C.CAPACITOR CH6.3V 1U		1
R800	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		C219	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U		1
R801,02	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2		C220	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U		1
R803-05	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3		C221	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U		1
R806,07	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	2		C222	F1J0J475A006	C.CAPACITOR CH6.3V 1U		1
R808,09	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2		C223,24	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U		2
R810	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1		C225-27	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	T	3
R811	ERJ8GEYJ681	M.RESISTOR CH 1/8W 680	1		C302,03	F1J0J475A006	C.CAPACITOR CH6.3V 1U	-	2
R812,13	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2		C307	F1J0J475A006	C.CAPACITOR CH6.3V 1U	+	1
R814	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1		C308-14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	7
R815	ERJ3GEY0R00	M.RESISTOR CH 1/16W 100K	1		C306-14 C315	ECUX1C104ZFV	C.CAPACITOR CH 25V 0.1U	+	1
R816	ERJ3GEYJ153	M.RESISTOR CH 1/16W 0	1		C316-20	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	+	5
			1			ECUX1E104ZFV ECUX1A105KBV		+	1
R817	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1		C321			+	4
R818	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		C322	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	-	1
R819	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1		C412-14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	+	3
R820	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1		C415	ECST1CX106Z	T.CAPACITOR CH 16V 10U	1	1
R821	ERJ8GEYJ681	M.RESISTOR CH 1/8W 680	1		C416	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	1
R822	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1						
R823	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1		IC101,02	XC62FP3002P	IC		2
R824-27	K5H1623A0001	FUSE	4		IC103	C1ZBZ0001435	IC		1
R900,01	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2		IC104	BH7086KV	IC		1 C1ZBZ0001649
R902	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1		IC105	C0JBAZ001605	IC		1
R903	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		IC203	MN2MD00006F	IC		1
R904-06	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	3		IC302	C1DB00000455	IC	T	1
R967	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		IC402	PLL1700E	IC	T	1 C0ZBZ0000363
					IC403	XC62FP5002P	IC	+	1 C0CBADD00003
TP1	EYF6CU	TEST POINT	1		10.11			+	
TP300-02	EYF6CU	TEST POINT	3		L101-05	VLP0353	COIL	+	5
TP400	EYF6CU	TEST POINT	1			VLQ0319K101	COIL 100UH	+	2 G1C101K00022
			4		L106,07	!		+	
TP500-03	EYF6CU	TEST POINT	2		L108	VLQ0426J120		-	1 G1C120J00005
TP600,01	EYF6CU	TEST POINT			L201-06	VLP0353	COIL	+	0
			<u> </u>		L301-03	VLP0353	COIL	-	3
VR300,01	EVM7JGA00B24	V.RESISTOR 20K	2		L304,05	J0LC00000008	FILTER	+	2
VR400	EVM7JGA00B24	V.RESISTOR 20K	1		L402	VLP0155	FILTER	-	1 J0JCC0000119
VR401	EVM7JGA00B54	V.RESISTOR 50K	1					1	
VR600,01	VRV0303B203A	V.RESISTOR 20K	2	D3EC3203A002	P1	VJS3978C120A	CONNECTOR (FEMALE)		1
					P2	VJP3125B006	CONNECTOR (MALE) 6P		1
X100	VSX0918	CRYSTAL OSCILLATOR	1	H0J250500005				\perp	
			L		Q101,02	2SD1819A-R	TRANSISTOR	╛¯	2
		MISCELLANEOUS	L^{-}						
					R1	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	T	1
	VKC0422	MINI GUARD SPACER	1		R2	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K		1
					R3	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K		1
					R102	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0		1
			T		R105	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	1
			H		R106	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	+	1
	1		 		R108,09	ERJ3RBD123	M.RESISTOR CH 1/16W 12K		2
■ E3	VEP83548A	VTR SUB C.B.A.	1	(RTL)	R110	ERJ3GEYJ222	M.RESISTOR CH 1/16W 12K	+	1
■ ∟3	VLI 00040M	V 11. 300 O.D.A.	H	(IXIE)		!		+	1
	-		1		R112	ERJ3GEYG102 ERJ6GEY0R00	M.RESISTOR CH 1/16W 1K M.RESISTOR CH 1/10W 0	+	1
0101	EOUVAETO TAE :	C CADACITOD CILIOSIA CALL	H		R113			+	4
C101		C.CAPACITOR CH 25V 0.1U	1		R115	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	-	1
C102	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1		R116	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	-	1
C103	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1		R117	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	1
C104	F1J0J475A006	C.CAPACITOR CH6.3V 1U	1		R118	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0		1
C105		C.CAPACITOR CH 25V 0.1U	1		R119	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M		1
C106	ECST1AY106Z	T.CAPACITOR CH 10V 10U	1		R120	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0		1
C107-10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4		R121,22	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K		2
C111-13	F1J0J475A006	C.CAPACITOR CH6.3V 1U	3		R123,24	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0		2
C114,15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2		R128	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K		1
C116-19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4		R129	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	1
C120-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6		R135	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	1
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	l		1			1	1	+	+

Part No.										
MINISTER MARCHESTER MARC	Ref No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
100 100				_	. tomano				2	. tomano
MATHER MATHER		-		1					1	
March Marc	R138,39	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2		C0013	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	
PALES PALE	R140	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1		C0014	F3G1C1060002	T.CAPACITOR CH 16V 10U	1	
March Marc	R141	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1		C0015	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1	
SALECYMEND DISCRIPTION OF THE WAY 20 1	R142	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1		C0017	SK41C336MC	T.CAPACITOR CH 16V 33U	1	-
MAJERNADE MAJ				1					2	
MAJORY NEED MAJORY NEED	R147	ERJ3GEY0R00		1		C0020-23	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	4	
MAJOR MAJO									1	
MASSES MAS		1		+-					1	
MODESTICATE MARRISTORY OF MODESTICATE STATE CONTROL CONT									1	
MADESTRIED MADESTRIED CH 1999 10 1		1							1	
MERCANDO PROCESSOR PROVINCE PROVINCE PROVINCE PROCESSOR PRO									1	
MINISTER MINISTER									1	
PRINCE PRINCENT COLD Marginary Cold First Prince Princ				_					3	
PATE PROPERTY PR		-		1					1	
PRINCEY PRINCEY 200 1		-		1					1	
Part Part									1	
Part				<u> </u>					1	
RECORD RESIDENCE CHINGN 1				<u> </u>					1	
PRINCEPT YEAR PRINCEPT YE		-		<u>. </u>					2	
READERYOTED MERSESTOR CH 1998 0 1	-								1	
REASEY/WINDO RESISTOR CH 1978 0 0 1				-					2	
PRINCENTINO PRISESTOR CH 11998 0 1		-		_		20004,00	10-7010	2.3/4 / (3.1 31 () 1 20 () .10	1	
## PACKED PROBLEM MESSITOR CH 1/10W 0 1 1						D0005	MA159	DIODE	1	
SANA SANDOPTON MESSITOR CH 1/19W 0 1								=	+	
SASSE SASSE VARIOR MARSISTOR CH 1/16W 2 1		-		1		J0001	K1MM21B00003	CONNECTOR	1	
\$2307 \$23				1					1	
\$2837 \$283657476				1						
R301 SPLISEPERROR ARESISTOR CH 119W V 2				1		Q0004	2SC4176	TRANSISTOR	1	B1ABDB000014
S312.13 GRUSRED123 ARESISTOR CH 1/19W 12K 2 C00009 238112/84M TRANSISTOR		-		2					1	
R319				2			2SB1218AHL		1	
RASS	R314-16	ERJ3RED560	M.RESISTOR CH 1/16W 56	3		Q0010,11	2SD1819AHL	TRANSISTOR	2	
R48,09	R318	ERJ3RED560	M.RESISTOR CH 1/16W 56	1		Q0012	2SB1218AHL	TRANSISTOR	1	
No. No.	R319	ERJ3RBD512	M.RESISTOR CH 1/16W 5.1K	1		Q0013	2SB09700HL	TRANSISTOR	1	
2011 VSXD846 CRYSTAL OSCILLATOR	R408,09	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2		Q0014	2SD1819AHL	TRANSISTOR	1	
R0002				I		Q0015	2SD13280HL	TRANSISTOR	1	
R0003,04 RRJSGEY,470 MRESISTOR CH 1/16W 47K 1	X201	VSX0846	CRYSTAL OSCILLATOR	1	H0J245500014	Q0016	2SB1218AHL	TRANSISTOR	1	
R0003,04 RRJSGEY,470 MRESISTOR CH 1/16W 47K 1										
R0006 ERJSGEYJA73 M.RESISTOR CH 1/16W 47K 1						R0002	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
■E4 VEP80C03A VTR SS C.B.A. 1 (RTL) R0001 ERJSGEY0R00 M.RESISTOR CH 1/16W 0 1 R0011 ERJSGEY0R17 M.RESISTOR CH 1/16W 47K 1 R0011-15 ERJSGEY0R17 M.RESISTOR CH 1/16W 47K 1 R0012-15 ERJSGEY0R17 M.RESISTOR CH 1/16W 47K 1 R0012-15 ERJSGEY0R17 M.RESISTOR CH 1/16W 47K 1 R0012-15 ERJSGEY0R17 M.RESISTOR CH 1/16W 47K 6 R0028 ERJSGEY470 M.RESISTOR CH 1/16W 47K 1 R0029 ERJSGEY0R00 M.RESISTOR CH 1/16W 47K 1 R0029 ERJSGEY0R00 M.RESISTOR CH 1/16W 47K 1 R0029 ERJSGEY0R00 M.RESISTOR CH 1/16W 47K 1 R0031 ERJSGEY0R00 M.RESISTOR CH 1/16W 47K 1 R0032 ERJSGEY0R00 M.RESISTOR CH 1/16W 47K 1 R0033 ERJSGEY0R00 M.RESISTOR CH 1/16W 0 1 R0033 ERJSGEY0R00 M.RESISTOR CH 1/16W 0 1 R0034 ERJSGEY0R00 M.RESISTOR CH 1/16W 0 1 R0035 ERJSGEY100 M.RESISTOR CH 1/16W 10 1 R0036 ERJSGEY100 M.RESISTOR CH 1/16W 10 1 R0037 ERJSGEY0R00 M.RESISTOR CH 1/16W 10 1 R0038 ERJSGEY100 M.RESISTOR CH 1/16W 10 1 R0039 ERJSGEY100 M.RESISTOR CH 1/16W 10						R0003,04	ERJ3GEYJ470		2	
■ E4						R0005			1	
R0011 ERJ3GEYG472 M.RESISTOR CH 1/16W 4.7K 1									1	
P11	■ E4	VEP80C03A	VTR S/S C.B.A.	1	(RTL)				1	
P11 VJP1230T CONNECTOR (MALE) 3P									1	
R0028 ERJ3GEYGA72 M.RESISTOR CH 1/16W 4.7K 1	5		0011150705 4	-					4	
R0029 ERJ3GEY0R00 M.RESISTOR CH 1/16W 0 1	P11	VJP1230T	CONNECTOR (MALE) 3P	1			ERJ3GEYJ470		_	
R0031	01	E) (0.0000====		1			== 10 <i>C</i> =: · ·		6	
R0033 ERJ3GEYJ560 M.RESISTOR CH 1/16W 56 1	SW11	EVQQS205K	OMITOLI	+-				M.RESISTOR CH 1/16W 4.7K	1	
R0034 ERJ3GEYJ100 M.RESISTOR CH 1/16W 10 1			SWITCH	1		R0029	ERJ3GEY0R00	M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/16W 0	1	
R0035 ERJ3GEYJ220 M.RESISTOR CH 1/16W 22 1 R0036 ERJ3GEYJ220 M.RESISTOR CH 1/16W 0 1 R0041-43 ERJ3GEYJ470 M.RESISTOR CH 1/16W 15 2 R0047-48 ERJ3GEYJ470 M.RESISTOR CH 1/16W 15 2 R0047-48 ERJ3GEYJ470 M.RESISTOR CH 1/16W 10K 1 R0047-48 ERJ3GEYJ220 M.RESISTOR CH 1/16W 10K 1 R0049 ERJ3GEYJ220 M.RESISTOR CH 1/16W 10K 1 R0050 ERJ3GEYJ223 M.RESISTOR CH 1/16W 33K 1 R0051 ERJ3GEYJ223 M.RESISTOR CH 1/16W 33K 1 R0052 ERJ3RBD133 M.RESISTOR CH 1/16W 33K 1 R0053 ERJ3RBD332 M.RESISTOR CH 1/16W 33K 1 R0053 ERJ3RBD332 M.RESISTOR CH 1/16W 33K 1 R0054 ERJ3RBD133 M.RESISTOR CH 1/16W 6.2K 1 R0055 ERJ3GEY080 M.RESISTOR CH 1/16W 6.2K 1 R0056 ERJ3GEY080 M.RESISTOR CH 1/16W 33K 1 R0057 ERJ3RBD303 M.RESISTOR CH 1/16W 330 1 R0068 ERJ3GEYJ331 M.RESISTOR CH 1/16W 330 1 R0069 ERJ3GEYJ331 M.RESISTOR CH 1/16W 330 1 R0060 ERJ3GEYJ331 M.RESISTOR CH 1/16W 47 1 R0060 ERJ3GEYJ370 M.RESISTOR CH 1/16W 47 1 R0070 ERJ3GEYJ370 M.RESISTOR CH 1/16W 47 1	1		SWITCH	1		R0029 R0031	ERJ3GEY0R00 ERJ3GEY0R00	M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 0	6 1 1	
■ E5 VEP83564A PRE AMP C.B.A. 1 (RTL)			SWITCH	1		R0029 R0031 R0033	ERJ3GEY0R00 ERJ3GEY0R00 ERJ3GEYJ560	M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 56	6 1 1 1	
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R0065 ERJ3GEYJ331 M.RESISTOR CH 1/16W 330 1	IC1 R1 R2 R3	NJM431U ERJ3RBD472 ERJ3RBD103 ERJ3RBD332	PRE AMP C.B.A. IC M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 3.3K	1 1 1 1 1 1		R0029 R0031 R0033 R0034 R0035 R0036 R0041-43 R0047-48 R0049 R0050 R0051 R0052 R0053 R0054 R0055 R0056 R0057 R0060,611 R0062	ERJ3GEY0R00 ERJ3GEY0R00 ERJ3GEYJ560 ERJ3GEYJ560 ERJ3GEYJ220 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ150 ERJ3GEYJ150 ERJ3GEYJ153 ERJ3GEYJ533 ERJ3RBD133 ERJ3RBD133 ERJ3RBD153 ERJ3RBD153 ERJ3RBD153 ERJ3RBD153 ERJ3RBD103 ERJ3GEYJ331	M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 10 M.RESISTOR CH 1/16W 22 M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 10 M.RESISTOR CH 1/16W 15 M.RESISTOR CH 1/16W 15 M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 33K M.RESISTOR CH 1/16W 13K M.RESISTOR CH 1/16W 15 M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 9.1K	1 1 1 1 1 1 1 3	
R0068,69 ERJ3GEY0R00 M.RESISTOR CH 1/16W 0 2 C0001 F3H1A2260003 T.CAPACITOR CH 10V 22U 1 R0070 ERJ3GEYJ470 M.RESISTOR CH 1/16W 47 1 C0002 F3F1A1060001 T.CAPACITOR CH 10V 10U 1 R0074 ERJ3GEYJ470 M.RESISTOR CH 1/16W 47 1	IC1 R1 R2 R3 R4	NJM431U ERJ3RBD472 ERJ3RBD103 ERJ3RBD332 ERJ3GEY0R00	PRE AMP C.B.A. IC M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 3.3K M.RESISTOR CH 1/16W 0	1 1 1 1 1 1 1 1 1	CODBEZCO0003	R0029 R0031 R0033 R0034 R0035 R0036 R0041-43 R0047,48 R0049 R0050 R0051 R0052 R0053 R0054 R0055 R0056 R0057 R0060,61 R0062 R0063	ERJ3GEY0R00 ERJ3GEY0R00 ERJ3GEYJ560 ERJ3GEYJ560 ERJ3GEYJ220 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ150 ERJ3GEYJ150 ERJ3GEYJ150 ERJ3GEYJ103 ERJ3GEYJ223 ERJ3GEYJ223 ERJ3RBD133 ERJ3RBD133 ERJ3RBD153 ERJ3RBD153 ERJ3RBD153 ERJ3RBD103 ERJ3GEYG102 ERJ3GEYJ331 ERJ3RBD103 ERJ3RBD103 ERJ3RBD103 ERJ3RBD103 ERJ3RBD103 ERJ3RBD103	M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 56 M.RESISTOR CH 1/16W 10 M.RESISTOR CH 1/16W 10 M.RESISTOR CH 1/16W 22 M.RESISTOR CH 1/16W 27 M.RESISTOR CH 1/16W 15 M.RESISTOR CH 1/16W 15 M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 9.1K M.RESISTOR CH 1/16W 9.1K	1 1 1 1 1 1 1 3	
C0001 F3H1A2260003 T.CAPACITOR CH 10V 22U 1 R0070 ERJ3GEYJ470 M.RESISTOR CH 1/16W 47 1 C0002 F3F1A1060001 T.CAPACITOR CH 10V 10U 1 R0074 ERJ3GEYJ470 M.RESISTOR CH 1/16W 47 1	IC1 R1 R2 R3 R4	NJM431U ERJ3RBD472 ERJ3RBD103 ERJ3RBD332 ERJ3GEY0R00	PRE AMP C.B.A. IC M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 3.3K M.RESISTOR CH 1/16W 0	1 1 1 1 1 1 1 1 1	CODBEZCO0003	R0029 R0031 R0033 R0034 R0035 R0036 R0041-43 R0047,48 R0049 R0050 R0051 R0052 R0053 R0054 R0056 R0056 R0056 R0056 R0057 R0060,61 R0062 R0063 R0064	ERJ3GEY0R00 ERJ3GEY0R00 ERJ3GEYJ560 ERJ3GEYJ100 ERJ3GEYJ220 ERJ3GEYJ470 ERJ3GEYJ150 ERJ3GEYJ150 ERJ3GEYJ150 ERJ3GEYJ150 ERJ3GEYJ150 ERJ3GEYJ150 ERJ3GEYJ223 ERJ3GEYJ333 ERJ3RBD133 ERJ3RBD153 ERJ3RBD153 ERJ3RBD162 ERJ3RBD163 ERJ3RBD103 ERJ3GEYJ3GEYJ3GEYJ3GEYJ3GEYJ3GEYJ3GEYJ3GEY	M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 56 M.RESISTOR CH 1/16W 10 M.RESISTOR CH 1/16W 22 M.RESISTOR CH 1/16W 22 M.RESISTOR CH 1/16W 25 M.RESISTOR CH 1/16W 25 M.RESISTOR CH 1/16W 25 M.RESISTOR CH 1/16W 15 M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 33K M.RESISTOR CH 1/16W 30K	1 1 1 1 1 1 1 3	
C0002 F3F1A1060001 T.CAPACITOR CH 10V 10U 1 R0074 ERJ3GEYJ470 M.RESISTOR CH 1/16W 47 1	IC1 R1 R2 R3 R4	NJM431U ERJ3RBD472 ERJ3RBD103 ERJ3RBD332 ERJ3GEY0R00	PRE AMP C.B.A. IC M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 3.3K M.RESISTOR CH 1/16W 0	1 1 1 1 1 1 1 1 1	CODBEZCO0003	R0029 R0031 R0033 R0034 R0035 R0036 R0041-43 R0047,48 R0049 R0050 R0051 R0052 R0053 R0054 R0055 R0056 R0057 R0060,61 R0062 R0063 R0064 R0065	ERJ3GEY0R00 ERJ3GEY0R00 ERJ3GEYJ560 ERJ3GEYJ100 ERJ3GEYJ100 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ150 ERJ3GEYJ150 ERJ3GEYJ233 ERJ3GEYJ233 ERJ3RBD133 ERJ3RBD133 ERJ3RBD153	M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 56 M.RESISTOR CH 1/16W 56 M.RESISTOR CH 1/16W 22 M.RESISTOR CH 1/16W 22 M.RESISTOR CH 1/16W 25 M.RESISTOR CH 1/16W 25 M.RESISTOR CH 1/16W 15 M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 13K M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 31K M.RESISTOR CH 1/16W 9.1K M.RESISTOR CH 1/16W 3.2K M.RESISTOR CH 1/16W 300	1 1 1 1 1 1 1 3	
	IC1 R1 R2 R3 R4	NJM431U ERJ3RBD472 ERJ3RBD103 ERJ3RBD332 ERJ3GEY0R00 WE600PKF1B	PRE AMP C.B.A. IC M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 0 DRIVE C.B.A.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CODBEZCO0003	R0029 R0031 R0033 R0034 R0035 R0036 R0041-43 R0047,48 R0049 R0050 R0051 R0052 R0053 R0054 R0055 R0056 R0057 R0060,61 R0062 R0063 R0064 R0065 R0066	ERJ3GEY0R00 ERJ3GEY0R00 ERJ3GEYJ560 ERJ3GEYJ560 ERJ3GEYJ220 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ150 ERJ3GEYJ150 ERJ3GEYJ150 ERJ3GEYJ150 ERJ3GEYJ150 ERJ3GEYJ150 ERJ3GEYJ150 ERJ3GEYJ223 ERJ3GEYJ333 ERJ3RBD133 ERJ3RBD153 ERJ3RBD162 ERJ3RBD103	M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 56 M.RESISTOR CH 1/16W 56 M.RESISTOR CH 1/16W 22 M.RESISTOR CH 1/16W 22 M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 15 M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 32K M.RESISTOR CH 1/16W 13K M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 330 M.RESISTOR CH 1/16W 330 M.RESISTOR CH 1/16W 330 M.RESISTOR CH 1/16W 330 M.RESISTOR CH 1/16W 330 M.RESISTOR CH 1/16W 330	1 1 1 1 1 1 1 3	
	IC1 R1 R2 R3 R4 ■ E6	NJM431U ERJ3RBD472 ERJ3RBD103 ERJ3RBD322 ERJ3GEY0R00 WE600PKF1B	PRE AMP C.B.A. IC M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 3.3K M.RESISTOR CH 1/16W 0 DRIVE C.B.A.	1 1 1 1 1 1 1 1 1	CODBEZCO0003	R0029 R0031 R0033 R0034 R0035 R0036 R0041-43 R0047,48 R0049 R0050 R0051 R0052 R0055 R0056 R0057 R0060,61 R0062 R0063 R0064 R0065 R0066 R0066 R0066 R0066,69 R0070	ERJ3GEY0R00 ERJ3GEY0R00 ERJ3GEYJ560 ERJ3GEYJ560 ERJ3GEYJ220 ERJ3GEYJ220 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ50 ERJ3GEYJ50 ERJ3GEYJ50 ERJ3RBD153 ERJ3RBD622 ERJ3RBD622 ERJ3RBD103 ERJ3GEYJ331	M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 56 M.RESISTOR CH 1/16W 56 M.RESISTOR CH 1/16W 22 M.RESISTOR CH 1/16W 22 M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 15 M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 33K M.RESISTOR CH 1/16W 33K M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 00 M.RESISTOR CH 1/16W 47	1 1 1 1 1 1 1 3	
	IC1 R1 R2 R3 R4 ■ E6 C0001 C0002	NJM431U ERJ3RBD472 ERJ3RBD103 ERJ3RBD332 ERJ3GEY0R00 WE600PKF1B F3H1A2260003 F3F1A1060001	PRE AMP C.B.A. IC M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 0 DRIVE C.B.A. T.CAPACITOR CH 10V 22U T.CAPACITOR CH 10V 10U	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CODBEZCO0003	R0029 R0031 R0033 R0034 R0035 R0036 R0041-43 R0047,48 R0049 R0050 R0051 R0052 R0055 R0056 R0057 R0060,61 R0062 R0063 R0064 R0065 R0066 R0066 R0066 R0066,69 R0070	ERJ3GEY0R00 ERJ3GEY0R00 ERJ3GEYJ560 ERJ3GEYJ560 ERJ3GEYJ220 ERJ3GEYJ220 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ50 ERJ3GEYJ50 ERJ3GEYJ50 ERJ3RBD153 ERJ3RBD622 ERJ3RBD622 ERJ3RBD103 ERJ3GEYJ331	M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 56 M.RESISTOR CH 1/16W 56 M.RESISTOR CH 1/16W 22 M.RESISTOR CH 1/16W 22 M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 15 M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 33K M.RESISTOR CH 1/16W 33K M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 00 M.RESISTOR CH 1/16W 47	1 1 1 1 1 1 1 3	
	IC1 R1 R2 R3 R4 ■ E6 C0001 C0002	NJM431U ERJ3RBD472 ERJ3RBD103 ERJ3RBD332 ERJ3GEY0R00 WE600PKF1B F3H1A2260003 F3F1A1060001	PRE AMP C.B.A. IC M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 0 DRIVE C.B.A. T.CAPACITOR CH 10V 22U T.CAPACITOR CH 10V 10U	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CODBEZCO0003	R0029 R0031 R0033 R0034 R0035 R0036 R0041-43 R0047,48 R0049 R0050 R0051 R0052 R0055 R0056 R0057 R0060,61 R0062 R0063 R0064 R0065 R0066 R0066 R0066	ERJ3GEY0R00 ERJ3GEY0R00 ERJ3GEYJ560 ERJ3GEYJ560 ERJ3GEYJ220 ERJ3GEYJ220 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ470 ERJ3GEYJ50 ERJ3GEYJ50 ERJ3GEYJ50 ERJ3RBD153 ERJ3RBD622 ERJ3RBD153 ERJ3RBD103 ERJ3GEYJ331	M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 56 M.RESISTOR CH 1/16W 56 M.RESISTOR CH 1/16W 22 M.RESISTOR CH 1/16W 22 M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 15 M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 33K M.RESISTOR CH 1/16W 33K M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 300 M.RESISTOR CH 1/16W 00 M.RESISTOR CH 1/16W 47	1 1 1 1 1 1 1 3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
U0001	YWTC7SH04F	IC	1		C116	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	1	
U0002	C0JBAE000004	IC	1		C117	VCEA1DAP680	E.CAPACITOR 20V 68U	1	
U0003 U0004,05	CXD2454A TC7SH32F	IC IC	2		C121,22 C123	VCEA1AAP101 ECUX1H681JCV	E.CAPACITOR 10V 100U C.CAPACITOR CH 50V 680P	2	
U0004,03	C1AB00000340	IC	1		C123	VCEA1DAP680	E.CAPACITOR CH 50V 660F	1	
∆ U0007	MC74ACT04DT	IC	1		C125	EEVHB1E4R7	E.CAPACITOR 25V 4.7U	1	
U0009	YW78L05UA	IC	1		C126	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
U0010	NJM2904D	IC	1		C127	ECUX1H562KBV	C.CAPACITOR CH 50V 5600P	1	
U0011,12	C0JBAF000239	IC	2		C129	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	1	
U0013	C0JBAA000157	IC	1		C130	VCEA1CAP101	E.CAPACITOR 16V 100U	1	
U0014-16	C0JBAB000005	IC	3		C132	VCEA1CAP101	E.CAPACITOR 16V 100U	1	
U0017	YW78L05UA	IC	1		C133	VCEA1DAP680	E.CAPACITOR 20V 68U	1	
∆ U0018	MC74ACT04DT	IC	1		C134,35	ECUX1H333KBN	C.CAPACITOR CH 50V 0.033U C.CAPACITOR CH 50V 470P	2	
U0019 U0020	C0JBAZ000171 C0CBABG00006	IC IC	1		C136 C138	ECUX1H471JCV EEUFC1E181	E.CAPACITOR CH 50V 470P	1	
00020	COCENECUOOC	10			C139	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
X0001	DX28R636A	CRYSTAL OSCILLATOR	1		C140	EEUFC1E181	E.CAPACITOR 25V 180U	1	
					C141	F1J1C105A091	C.CAPACITOR CH 10V 1U	1	
		MISCELLANEOUS			C142	EEUFC1E181	E.CAPACITOR 25V 180U	1	
					C143	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
	VEE0N69	MINI DRIVE SHIELD ASS'Y	1		C144	EEUFC1E181	E.CAPACITOR 25V 180U	1	
					C145	F1J1C105A091	C.CAPACITOR CH 10V 1U	1	
					C146	EEVHB1E6R8R	E.CAPACITOR 25V 6.8U	1	
	1				C200,01	ECUX0J475KBN	C.CAPACITOR CH6.3V 4.7U	2	
					C202 C203	ECUX1A105KBV ECUX0J475KBN	C.CAPACITOR CH 10V 1U C.CAPACITOR CH6.3V 4.7U	1	
■ E7	VEP81220A	POWER C.B.A.	1	(RTL)	C205	ECUXUJ475KBN ECUX1E104KBN	C.CAPACITOR CH6.3V 4.7U	1	
			_	v···-/	C205	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
					C207	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1	ECUX0J475KBN	C.CAPACITOR CH6.3V 4.7U	1		C208	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C1	VCEA1DSS101	E.CAPACITOR 20V 100	1	FOR VEP81220A	C209	ECUX1E273KBV	C.CAPACITOR CH 25V 0.027U	1	
C2	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	1		C210	ECUX1H102JV	C.CAPACITOR CH 50V 1000P	1	
C2	VCEA1AAP101	E.CAPACITOR 10V 100	1	FOR VEP81220A	C211	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	1	
C3	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	1		C212	VCEA1DAP680	E.CAPACITOR 20V 68U	1	
C4	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1		C216	VCEA1AAP101	E.CAPACITOR 10V 100U	1	
C5 C6	ECUX1H121JCV ECUX1A474KBV	C.CAPACITOR CH 50V 120P C.CAPACITOR CH 10V 0.1U	1		C218 C219,20	ECA1EFQ820 ECUX1H104KBV	E.CAPACITOR 25V 82U C.CAPACITOR CH 50V 0.1U	2	
C7	ECUX1H474KBV	C.CAPACITOR CH 50V 470P	1		C219,20	EEUFC1J680	E.CAPACITOR 63V 68U	1	
C8	ECUX0J475KBN	C.CAPACITOR CH6.3V 4.7U	1		C222	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	1	
C9	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1		C223	EEUFC1J680	E.CAPACITOR 63V 68U	1	
C10	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1		C224	EEVHB1E6R8R	E.CAPACITOR 25V 6.8U	1	
C11,12	ECUX1H102JV	C.CAPACITOR CH 50V 1000P	2		C226	VCEA1AAP101	E.CAPACITOR 10V 100U	1	
C13	ECUX0J475KBN	C.CAPACITOR CH6.3V 4.7U	1		C250,51	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	2	
C14	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1		C300,01	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	2	
C15	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1		C302	EEVHB1E6R8R	E.CAPACITOR 25V 6.8U	1	
C16	ECUX1H102JV ECUX1H123KBV	C.CAPACITOR CH 50V 1000P C.CAPACITOR CH 50V 0.012U	1		C303,04 C305,06	ECUX1H104KBV ECUM1E224KBN	C.CAPACITOR CH 50V 0.1U C.CAPACITOR CH 25V 0.22U	2	
C17	VCEA1DAP680	E.CAPACITOR CH 50V 0.0120	1		C305,06	F1L1C1060020	C.CAPACITOR CH 25V 0.220	1	
C21		C.CAPACITOR CH 50V 2700P	1		C309		E.CAPACITOR 25V 6.8U	1	
C23	VCEA1AAP101	E.CAPACITOR 10V 100U	1		C310	VCEA1DAP101	E.CAPACITOR 20V 100U	1	
C25	VCEA1AAP101	E.CAPACITOR 10V 100U	1		C400	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
C26	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	_ 1		C401	ECUX0J475KBN	C.CAPACITOR CH6.3V 4.7U	1	
C27	VCEA1DAP680	E.CAPACITOR 20V 68U	1		C402	ECUX1A684KBV	C.CAPACITOR CH 10V 0.68U	1	
C28	EEVHB1E4R7	E.CAPACITOR 25V 4.7U	1		C403	ECUX0J475KBN	C.CAPACITOR CH6.3V 4.7U	1	
C29	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1		C404	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C32	VCEA1CAP101	E.CAPACITOR 16V 100U	1		C405	ECUX1H183KBV	C.CAPACITOR CH 50V 0.018U	1	-
C33	VCEA1AAP101	E.CAPACITOR 10V 100U	1		C406	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	-
C34 C35	ECUX1H681JCV VCEA1DAP680	C.CAPACITOR CH 50V 680P E.CAPACITOR 20V 68U	1		C407 C408	ECUX1H183KBV ECUX1H104KBV	C.CAPACITOR CH 50V 0.018U C.CAPACITOR CH 50V 0.1U	1	1
C39	VCEA1AAP221	E.CAPACITOR 20V 660 E.CAPACITOR 10V 220U	1	F2D1A2210001	C408	VCEA1DAP680	E.CAPACITOR CH 50V 0.10	1	-
C41	VCEA1AAP221	E.CAPACITOR 10V 220U		F2D1A2210001	C411,12	VCEA1CAP101	E.CAPACITOR 16V 100U	2	
C42	EEVHB1E6R8R	E.CAPACITOR 25V 6.8U	1	•	C413	EEVHB1E6R8R	E.CAPACITOR 25V 6.8U	1	
C100	ECUX0J475KBN	C.CAPACITOR CH6.3V 4.7U	1					1	
C101,02	ECUX1H104KBV	C.CAPACITOR CH 50V 0.1U	2		D1-D4	MA142WK	DIODE	4	
C103	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1		D5	MA3J14300L	DIODE	1	
C105	ECUX1A474KBV	C.CAPACITOR CH 10V 0.1U	1		D8-12	NSQ03A04	DIODE	5	B0JCPE000013
C106	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1		D100-03	MA142WK	DIODE	4	
C107	ECUX0J475KBN	C.CAPACITOR CH6.3V 4.7U	1		D104	MA3J14300L	DIODE	1	P0 ICPE00042
C108 C109	ECUX1H471JCV ECUX1H682KBV	C.CAPACITOR CH 50V 470P C.CAPACITOR CH 50V 6800P	1		D107 D109	NSQ03A04 NSQ03A04	DIODE	_	B0JCPE000013 B0JCPE000013
C109 C110,11	ECUX1H682KBV ECUX1H102JV	C.CAPACITOR CH 50V 6800P	2		D109 D110,11	SFPB-76V	DIODE	2	
C110,11	ECUX0J475KBN	C.CAPACITOR CH6.3V 4.7U	1		D110,11	MA739	DIODE	1	
C113	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1		D113-17	MA8068-MH	DIODE	5	
C114	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1		D200-02	MA142WK	DIODE	3	
C115	ECUX1H102JV	C.CAPACITOR CH 50V 1000P	1		D205	NSQ03A04	DIODE	1	B0JCPE000013
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Ref.No. D206	Part No. EC10QS1012	Part Name & Description DIODE	Pcs 1	Remarks	Ref.No.	Part No. K1KA07B00006	Part Name & Description CONNECTOR (MALE) 4P	Pc	s Remarks
D207	MA142WK	DIODE	1		P4	VJP2824B003	CONNECTOR (MALE)	1	1 K1KA03B00005
D300-03	MA142WA	DIODE	4						
D304-06	MA8068-MH	DIODE	3		Q1	2SD1820A-R	TRANSISTOR		1
D307	S3V60	DIODE	1	B0EAKR000020	Q2	2SB1219A-R	TRANSISTOR		1
D308	MA142WK	DIODE	1		Q3	B1DHEG000002	TRANSISTOR	Ľ	1
D309	MA142WA	DIODE	1		Q5	2SD1820A-R	TRANSISTOR	H.	1
D310 D400,01	MA142WK MA142WK	DIODE	2		Q6 Q7	2SB1219A-R XN4401	TRANSISTOR TRANSISTOR-RESISTOR	H	1
D400,01	NSQ03A04	DIODE		B0JCPE000013	Q8	2SD1820A-R	TRANSISTOR	١.	1
5.01	110 400 10 1	51052	Ė	20001 2000010	Q9	B1DHEG000002	TRANSISTOR	t.	1
IC1	BA9706K	IC	1	C0DBAZZ00012	Q10,11	2SD1820A-R	TRANSISTOR	1	2
IC100	BA9706K	IC	1	C0DBAZZ00012	Q12	2SB1219A-R	TRANSISTOR		1
IC200	BA9743AFV	IC	1		Q13	B1DHEG000002	TRANSISTOR		1
IC300	NJM78L05UA	IC	1	C0CBADC00010	Q100	2SD1820A-R	TRANSISTOR	ļ ·	1
IC301	NJM2903M	IC	1		Q101	2SB1219A-R	TRANSISTOR	Ľ	1
IC400	BA9743AFV	IC	1		Q102	B1DHEG000002	TRANSISTOR	H.	1
JP1	VMP6346	EARTH LUG	1		Q105 Q106	2SD1820A-R 2SB1219A-R	TRANSISTOR TRANSISTOR	H	1
JFI	VIVIF0340	EARTH LOG	-		Q100	XN4401	TRANSISTOR TRANSISTOR-RESISTOR	١.	1
L1	VLP0353	COIL	1		Q108	2SD1820A-R	TRANSISTOR	Ι.	1
L1	VLQ0417	COIL	1	FOR VEP81220A	Q109	B1DHEG000002	TRANSISTOR	1	1
L2	VLP0353	COIL	1		Q110	2SD1820A-R	TRANSISTOR	1	1
L2	VLQ0417	COIL	1	FOR VEP81220A	Q111	2SB1219A-R	TRANSISTOR		1
L3	VLP0353	COIL	1		Q112	2SK1748-Z	TRANSISTOR		1
L4	J0JKC0000009	FILTER	1		Q200	2SD1820A-R	TRANSISTOR	<u> </u>	1
L5	G1C4R7M00009	COIL 4.7UH	1		Q201	2SB1219A-R	TRANSISTOR	H.	1
L6 L7	J0JKC0000009 VLQ0859M101	FILTER COIL 100UH	1		Q202 Q204	B1DHEG000002 2SB1219A-R	TRANSISTOR	H	1
L8	G1C6R8M00001	COIL 1000H	1		Q204 Q205	2SD2403	TRANSISTOR TRANSISTOR	١.	1
L9	J0JKC0000009	FILTER 0.0011	1		Q300	2SB1219A-R	TRANSISTOR	١.	1
L10	G1C4R7M00009	COIL 4.7UH	1		Q301	2SJ280S	TRANSISTOR	١.	1 B1DHJG000001
L11	J0JKC0000009	FILTER	1		Q302	2SD1820A-R	TRANSISTOR	١.	1
L12	VLQ0859M101	COIL 100UH	1		Q303	B1DHEG000002	TRANSISTOR		1
L13	G1C6R8M00001	COIL 6.8UH	1		Q401	2SD1820A-R	TRANSISTOR		1
L14	J0JKC0000009	FILTER	1		Q402	2SB1219A-R	TRANSISTOR	<u> </u>	1
L15	G1C4R7M00009	COIL 4.7UH	1		Q403	B1DHEG000002	TRANSISTOR	Ľ	1
L16	VLQ0859M221	COIL 220UH	1		OD4 D0	I INDE440001	TRANSISTOR RESISTOR	Η.	
L17	J0JKC0000009 G1C6R8M00001	FILTER COIL 6.8UH	1		QR1,R2 QR3	UNR511200L UNR521100L	TRANSISTOR-RESISTOR TRANSISTOR-RESISTOR	-	1
L100-02	VLP0353	COIL 6.80H	3		QR100,01	UNR511200L	TRANSISTOR-RESISTOR TRANSISTOR-RESISTOR	H:	
L103	J0JKC0000009	FILTER	1		QR102	UNR521100L	TRANSISTOR-RESISTOR	Ħ	1
L104	G1C4R7M00009	COIL 4.7UH	1		QR202,03	UNR511200L	TRANSISTOR-RESISTOR	1	2
L105	J0JKC0000009	FILTER	1		QR300	UNR521100L	TRANSISTOR-RESISTOR		1
L106	VLQ0859M101	COIL 100UH	1		QR301	UN5215	TRANSISTOR-RESISTOR		1
L107	G1C6R8M00001	COIL 6.8UH	1		QR303	UNR521100L	TRANSISTOR-RESISTOR	ļ ·	1
L108	J0JKC0000009	FILTER	1		QR400	UNR511200L	TRANSISTOR-RESISTOR	Ľ.	1
L109	G1C4R7M00009	COIL 4.7UH	1		QR401,02	UNR521100L	TRANSISTOR-RESISTOR	E	2
L110 L111	J0JKC0000009 VLQ0859M221	FILTER COIL 220U	1		QR403,04	UNR511200L	TRANSISTOR-RESISTOR	F	-
L112	G1C6R8M00001	COIL 2200	1		R1	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	١.	1
L113	J0JKC0000009	FILTER	1		R2	ERJ3GEYJ113	M.RESISTOR CH 1/16W 11K	1	1
L114	G1C4R7M00009	COIL 4.7UH	1		R3,R4	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1:	2
L115,16	G1A100G00006	COIL 10UH	2		R6	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	Ŀ	1
L200,01	VLP0353	COIL	2		R7-12	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	(3
L202	J0JKC0000009	FILTER	1		R13	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	L.	1
L203	G1C4R7M00009	COIL 4.7UH	1		R14,15	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	:	2
L204	J0JKC0000009	FILTER 100 III	1		R16	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	H	1
L205 L206	VLQ0859M101	COIL 100UH COIL 6.8UH	1		R17 R18	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	H	1
L206 L207	G1C6R8M00001 J0JKC0000009	FILTER 6.8UH	1		R18 R19	ERJ3GEYJ104 ERJ3GEYJ123	M.RESISTOR CH 1/16W 100K M.RESISTOR CH 1/16W 12K	Ι.	1
L207	VLQ0319K680	COIL 68UH		G1C680KA0002	R20	ERJ3GEYJ273	M.RESISTOR CH 1/16W 12K	1	1
L210	G1A102B00003	COIL 1000UH	1		R21	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	1
L300	VLQ0319K100	COIL 10UH	1	G1C100K00023	R22	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	1
L302-04	J0JKC0000009	FILTER	3		R23	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	Į.	1
L400	VLQ0319K100	COIL 10UH	1	G1C100K00023	R24	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K		1
L401	VLP0353	COIL	1		R25	ERJ3RBD162	M.RESISTOR CH 1/16W 1.6K	ļ .	1
L402	J0JKC0000009	FILTER	1		R26	ERJ3RBD181	M.RESISTOR CH 1/16W 180	Ľ	1
L403	G1C4R7M00009	COIL 4.7UH	1		R27	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	H.	1
L404 L405	J0JKC0000009 VLQ0859M680	FILTER COIL 68UH	1		R28 R29	ERJ3RBD103 ERJ3GEYJ101	M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 100	Η.	1
L405 L406	G1C6R8M00001	COIL 68UH	1		R30	ERJ3GEYJ101 ERJ3GEYG332	M.RESISTOR CH 1/16W 100 M.RESISTOR CH 1/16W 3.3K	H	1
2.00		5.5011	F'		R31	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	١.	1
	VEE0M64	POWER CABLE	1		R35	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	1
P1	V LLOIVIO-					1	t		
P1 P2	VEE0M65	POWER CABLE 2	1		R37	ERJ3GEYJ180	M.RESISTOR CH 1/16W 18		1
		POWER CABLE 2	1		R37	ERJ3GEYJ180	M.RESISTOR CH 1/16W 18	F.	1

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Po	s Remarks
R38 R39	ERJ3GEYJ101 ERJ3RBD153	M.RESISTOR CH 1/16W 100 M.RESISTOR CH 1/16W 15K	1		R206 R207-10	ERJ3GEYJ103 ERJ3RBD333	M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 33K	-	1
R40	ERJ3RBD153 ERJ3GEYG332	M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 3.3K	1		R207-10	ERJ3RBD333 ERJ3GEYJ153	M.RESISTOR CH 1/16W 33K M.RESISTOR CH 1/16W 15K	+	1
R41	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1		R212	ERJ3RBD302	M.RESISTOR CH 1/16W 3K		1
R42	ERJ14RSJR10	M.RESISTOR CH 1/4W 0.1	1		R213	ERJ3RBD241	M.RESISTOR CH 1/16W 240		1
R43	ERJ3GEYJ431	M.RESISTOR CH 1/16W 430	1		R214	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K		1
R44	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R216	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K		1
R45	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R217	ERJ3RED224	M.RESISTOR CH 1/16W 220K		1
R46	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1		R218	ERJ3RBD331	M.RESISTOR CH 1/16W 330		1
R49	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1		R219	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K		1
R50	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1		R220	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	-	1
R51	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R221 R222	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	-	1
R52 R53	ERJ3RBD433 ERJ3GEYG102	M.RESISTOR CH 1/16W 43K M.RESISTOR CH 1/16W 1K	1		R222	ERJ3GEYJ330 ERJ3GEYJ104	M.RESISTOR CH 1/16W 33 M.RESISTOR CH 1/16W 100K		1
R54	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1		R228	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100		1
R55	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1		R229	ERJ14YJ1R0	M.RESISTOR CH 1/4W 1.0	1	1
R56	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1		R230	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K		1
R60	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1		R231	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K		1
R61	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1		R232	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K		1
R62	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1		R233	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270		1
R63	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R234	ERJ8GEYJ101	M.RESISTOR CH 1/8W 100		1
R64	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R235	ERJ3GEYJ433	M.RESISTOR CH 1/16W 43K	-	1
R100	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1		R237	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	H	1
R101 R103	ERJ3GEYJ113 ERJ3GEYJ151	M.RESISTOR CH 1/16W 11K M.RESISTOR CH 1/16W 150	1		R300 R301	ERJ3GEYJ103 ERJ3GEYJ222	M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 2.2K	H	1
R104,05	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2		R302	ERJ3GEYJ103	M.RESISTOR CH 1/16W 2.2K		1
R106-11	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	6		R303	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	1
R112	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R304	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	T	1
R113	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R305	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K		1
R114	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1		R306,07	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	-	2
R115	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R308	ERJ3GEYJ270	M.RESISTOR CH 1/16W 27		1
R116	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1		R310	ERJ3RBD753	M.RESISTOR CH 1/16W 75K		1
R117	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1		R311	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	H	1
R118	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1		R312,13	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	H	4
R119 R120	ERJ3GEYJ103 ERJ3GEYG332	M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 3.3K	1		R314 R315	ERJ3GEYJ201 ERJ3GEYJ273	M.RESISTOR CH 1/16W 200 M.RESISTOR CH 1/16W 27K		1
R121	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1		R316	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	1
R122	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R317,18	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	T:	2
R123	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1		R319	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	T	1
R124	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R320	ERJ3RBD473	M.RESISTOR CH 1/16W 47K		1
R125	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1		R321	ERJ3RBD223	M.RESISTOR CH 1/16W 22K		1
R126	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1		R322	ERJ3RBD273	M.RESISTOR CH 1/16W 27K		1
R127	ERJ3RBD301	M.RESISTOR CH 1/16W 300	1		R323	ERJ3RBD223	M.RESISTOR CH 1/16W 22K		1
R128	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R324	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K		1
R129 R130	ERJ3GEYG332 ERJ3GEYJ330	M.RESISTOR CH 1/16W 3.3K	1		R325 R402	ERJ3GEYJ330 ERJ3RBD432	M.RESISTOR CH 1/16W 33 M.RESISTOR CH 1/16W 4.3K	Н	1
R134	ERJ3GEYJ104	M.RESISTOR CH 1/16W 33 M.RESISTOR CH 1/16W 100K	1		R402	ERJ3RBD752	M.RESISTOR CH 1/16W 4.5K		1
R137	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1		R406,07	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	2
	ERJ3RBD112	M.RESISTOR CH 1/16W 1.1K	1		R408	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	1
R139	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1		R409	ERJ3GEYG332	M.RESISTOR CH 1/16W 18K	T	1
R140	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R410	ERJ3RBD433	M.RESISTOR CH 1/16W 43K		1
R141	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1		R411	ERJ3RBD681	M.RESISTOR CH 1/16W 680		1
R142	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1		R412	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	L	1
R143	ERJ14RSJR10	M.RESISTOR CH 1/4W 0.1	1		R413	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	1
R144	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1		R416	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	+	1
R145 R146	ERJ3GEYG102 ERJ3GEYJ103	M.RESISTOR CH 1/16W 1K M.RESISTOR CH 1/16W 10K	1		R417	ERJ3GEYJ104 ERJ3GEYJ330	M.RESISTOR CH 1/16W 100K M.RESISTOR CH 1/16W 33	+	1
R146	ERJ3GEYJ103 ERJ3GEYJ104	M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 100K	1		R418	F1/00/0E 1/3/3/0	MINEGIOTOR OF 1/10W 33	H	
R147	ERJ3GEYJ220	M.RESISTOR CH 1/16W 100K	1		SW300	VSS0342	SWITCH	1	1 K0D112B00056
R150	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1				-	1	
R151	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1		T100	VTP0514	TRANSFORMER		1 G4D1A0000033
R152	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1					1	
R153	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		TG1	EYF6CU	TEST POINT		1
R154	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1						
R155	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1		<u></u> ★ TH300	VRT0152160	THERMISTOR	-	1
R156	ERJ8GEYJ472	M.RESISTOR CH 1/8W 4.7K	1		TDC	EVENOU	TEST BOILT	-	
R157	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1		TP3	EYF6CU	TEST POINT	\vdash	1
R159,60 R162	ERJ3GEY0R00 ERJ3GEYJ750	M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 75	1		TP300	EYF6CU	TEST POINT	+	!
R162 R164,65	ERJ3GEYJ750 ERJ3GEYJ680	M.RESISTOR CH 1/16W 75 M.RESISTOR CH 1/16W 68	2		VR2	EVM7JGA00B24	V.RESISTOR 20K	1	1
R166	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1		-114	50/100024	2010.1011	1	
R202	ERJ3GEYJ432	M.RESISTOR CH 1/16W 4.3K	1				MISCELLANEOUS	t	
R203	ERJ3GEYJ113	M.RESISTOR CH 1/16W 11K	1					t	
R204	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1			VMP6829	C.B.A. HOLDER ANGLE		2
R205	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1			XYN26+K6	SCREW		2
					1	1	1		1

				 			F	一	T
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Po	
	<u> </u>		-			XTV3+6GFZ VMG1392	SCREW CN WATERPROOF CUSHION	+	2
						VIVIG 1392	CN WATERFROOF COSHION	+	1
								+	+
							<u> </u>	T	
■ E8	WE600PKY1A	PRE AMP SUB C.B.A.	1	(RTL)					
								╙	
					■ E11	VEP86149A	OPERATE C.B.A.	4	1 (RTL)
C0701	F3F1A1060001	T.CAPACITOR CH 10V 10U	1					+	
C0702	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		D0004 02	DD4400W 4	DIODE	+	3
Q0701	2SA15320CL	TRANSISTOR	1		D6001-03	BR1102W-1	DIODE	+	5
Q0702	2SC39310YL	TRANSISTOR	1		P501	VJP3125B010	CONNECTOR (MALE)	+	1 K1KA10B00136
							,	T	
R0701	EVM7JGA00B14	V.RESISTOR 10K	1		SW6001-05	EVQPHL03T	SWITCH	T	5
R0702	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1						
R0703	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1				MISCELLANEOUS	╙	
R0704	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1					4	
R0705	EVM7JGA00B14	V.RESISTOR 10K	1			VEE9417	P.C.B. INT CABLE	+	1
R0706	ERJ3GEYJ103 EVM7JGA00B14	M.RESISTOR CH 1/16W 10K V.RESISTOR 10K	1			 		+	+
R0707 R0708	1	V.RESISTOR 10K M.RESISTOR CH 1/16W 5.6K	1			-		+	+
	_, 00002		<u> </u>				†	+	+
		MISCELLANEOUS				 		+	+
					■ E12	VEP80C09A	1394 JACK C.B.A.	1	1 (RTL)
	L3071A04A1	SPECIAL CABLE	1					T	
	L3071A05A3	SPECIAL CABLE	1						
	L3071A06A2	SPECIAL CABLE	1		J300	VJJ0568	DV JACK	\perp	1
	L3071A07A7	SPECIAL CABLE	1			L CERTIFICATION OF THE PARTY OF		$oldsymbol{\perp}$	
					P300	VEE0N20	1394 CABLE	+	1
								+	
	 					 	+	+	+
						 		+	1
■ E9	VEP80C06B	REAR JACK C.B.A.	1	(RTL)				T	1
					■ E13	WE600PKB1B	SENSOR (R) C.B.A.	T	1 (RTL)
C1-C6	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	6					Ш.	
					C0001,02	F3H1E4750002	T.CAPACITOR CH 25V 4.7U	4	2
J1,J2	VJS3417	CONNECTOR (FEMALE)	2	K1AB103A0007	C0003	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	+	1
P1	VEE0N11	REAR JACK CABLE	-		C0004 C0006	ECSF1CE156 F3H0J4760002	T.CAPACITOR CH 16V 15U T.CAPACITOR CH6.3V 47U	+	1
FI	VEEDIVII	REAR JACK CABLE	<u> </u>		C0007	F3H1E4750002	T.CAPACITOR CH 25V 4.7U	+	1
R2,R3	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2		C0008	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	╁	1
R5		M.RESISTOR CH 1/16W 0	1					\top	
R8,R9	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2		J0001	K1MZ18B00003	CONNECTOR	T	1
R11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1						
					L0001	G1C150J00002	COIL 15UH	╙	1
								4	
	 				Q0001	2SC39310YL	TRANSISTOR	+	1
	 		-		R0001	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	+	1
■ E10	VEP80C07A	AV OUT C.B.A.	1	(RTL)	R0001 R0003	ERJ3GEYUR00 ERJ3GEYJ184	M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 180K	+	1
= -10	-21 0000/A	551 0.0.7.	<u> </u>	(/	R0003	ERJ3GEYJ273	M.RESISTOR CH 1/16W 160K	+	1
					R0005	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	+	1
C102,03	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	F1H1H102A009	R0006	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	1
			L		R0007	ERJ3GEYJ302	M.RESISTOR CH 1/16W 3K	I	1
J100	VJS3155	CONNECTOR (FEMALE)	1	K1CB104A0012	R0008	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	L	1
J101	VJJ0323	RCA PIN JACK	-	K2HA202A0029	R0009	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	\perp	1
J400,01	VJS1440	CONNECTOR (FEMALE)	2				<u> </u>	\bot	
1 400 61	V// DOC 47	COIL	-			<u> </u>		+	
	VLP0147 VLP0352	COIL FERRITE CORE	2			 	1	+	-
L 102,03	VLI 0002	I LIMITE GOILE	-		-	+	+	+	+
P100	VEE-K41-P100	CONNECTOR	1		■ E14	WE600PKC1A	SENSOR (G) C.B.A.	+	1 (RTL)
P101	VEE-K41-P101	CONNECTOR	1			† · · · · · · · · · · · · · · · · · · ·	† · · · · ·	+	† '
								T	
R100,01	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2		C0001,02	F3H1E4750002	T.CAPACITOR CH 25V 4.7U	1	2
R102		M.RESISTOR CH 1/16W 0	1		C0003	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M		1
R104	ł	M.RESISTOR CH 1/16W 0	1		C0004	F3H0J1560001	T.CAPACITOR CH6.3V 15U	$oldsymbol{\perp}$	1
	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4		C0006	F3H0J4760002	T.CAPACITOR CH6.3V 47U	+	1
R400-03				i	C0007	F3H1E4750002	T.CAPACITOR CH 25V 4.7U	\bot	1
		MICCELLANICOLIC			00000	EALIAEACAACAC	C CADACITOD CUI OFLI A 411		4
		MISCELLANEOUS			C0008	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	+	1
	VMP6781		1					ŧ	1 2
	VMP6781	MISCELLANEOUS C.B.A. HOLDER ANGLE	1		C0008 E0001,02	F1H1E104A016 L2471A06A5	C.CAPACITOR CH 25V 0.1U SPECIAL CABLE	‡	2

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Р	ocs	Remarks
					C0112	F1H1H151A231	C.CAPACITOR CH 50V 150P		1	
J0001	K1MZ18B00003	CONNECTOR	1		C0113	F3H1C4760003	T.CAPACITOR CH 16V 47U		1	
J0002	K1MZ10B00003	CONNECTOR	1		C0114	F1H1H100A226	C.CAPACITOR CH 50V 100P		1	
J0003,04	K1MZ18B00003	CONNECTOR	2		C0115	F1H1H200A004	C.CAPACITOR CH 50V 20P	1	1	
					C0116	F3F1A1060001	T.CAPACITOR CH 10V 10U	4	1	
L0001	G1C150J00002	COIL 15UH	1		C0118,19	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	4	2	
					C0120	F3F1A1060001	T.CAPACITOR CH 10V 10U	4	1	
Q0001	2SC39310YL	TRANSISTOR	1		C0121	F3F0J3360001	T.CAPACITOR CH6.3V 33U	4	1	
					C0122	F3F1A1060001	T.CAPACITOR CH 10V 10U	4	1	
R0001	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		C0302	F1H1H151A231	C.CAPACITOR CH 50V 150P	4	1	
R0003	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1		C0303	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	4	1	
R0004	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1		C0304	F3G1C2260001	T.CAPACITOR CH 16V 22U	+	1	
R0005	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1		C0305	F1H1H180A231	C.CAPACITOR CH 50V 18P	+	1	
R0006	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		C0306	F1H1H150A004	C.CAPACITOR CH 50V 15P	+	1	
R0007	ERJ3GEYJ302	M.RESISTOR CH 1/16W 3K	1		C0307	F1H1H180A231	C.CAPACITOR CH 50V 18P	+	1	
R0008	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1		C0308	F3F1C1060002	T.CAPACITOR CH 16V 10U	+	1	
R0009	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	- 1		C0309	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	+	-	
					C0310	F1H1H390A231	C.CAPACITOR CH 50V 39P	+	1	
					C0311 C0312	F3F1A1060001 F1H1H151A231	T.CAPACITOR CH 10V 10U C.CAPACITOR CH 50V 150P	+	-	
						F3H1C4760003		+	- 1	
					C0313 C0314	F1H1H100A226	T.CAPACITOR CH 16V 47U C.CAPACITOR CH 50V 100P	+	1	
■ E15	WE600PKD1A	SENSOR (B) C.B.A.	1	(RTL)	C0314 C0315	F1H1H100A226 F1H1H200A004	C.CAPACITOR CH 50V 100P	+	1	
■ L10		02.13011 (b) 0.b.A.	H'	···-/	C0315	F3F1A1060001	T.CAPACITOR CH 10V 10U	1	1	
			-		C0318,19	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	+	2	
C0001,02	F3H1E4750002	T.CAPACITOR CH 25V 4.7U	2		C0316,19	F3F1A1060001	T.CAPACITOR CH 10V 10U	+	1	
C0003	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1		C0321	F3F0J3360001	T.CAPACITOR CH6.3V 33U	1	1	
C0003	F3H0J1560001	T.CAPACITOR CH6.3V 15U	1		C0502	F1H1H151A231	C.CAPACITOR CH 50V 150P	\dagger	1	
C0006	F3H0J4760002	T.CAPACITOR CH6.3V 47U	1		C0503	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	t	1	
C0007	F3H1E4750002	T.CAPACITOR CH 25V 4.7U	1		C0504	F3G1C2260001	T.CAPACITOR CH 16V 22U	t	1	
C0008	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	1		C0505	F1H1H180A231	C.CAPACITOR CH 50V 18P	t	1	
					C0506	F1H1H150A004	C.CAPACITOR CH 50V 15P	t	1	
J0001	K1MZ18B00003	CONNECTOR	1		C0507	F1H1H180A231	C.CAPACITOR CH 50V 18P	t	1	
					C0508	F3F1C1060002	T.CAPACITOR CH 16V 10U	Ť	1	
L0001	G1C150J00002	COIL 15UH	1		C0509	F1H1E104A016	C.CAPACITOR CH 25V 0.1U	Ť	1	
					C0510	F1H1H390A231	C.CAPACITOR CH 50V 39P	Ť	1	
Q0001	2SC39310YL	TRANSISTOR	1		C0511	F3F1A1060001	T.CAPACITOR CH 10V 10U	Ť	1	
					C0512	F1H1H151A231	C.CAPACITOR CH 50V 150P	Ť	1	
R0001	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		C0513	F3H1C4760003	T.CAPACITOR CH 16V 47U	T	1	
R0003	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1		C0514	F1H1H100A226	C.CAPACITOR CH 50V 100P	T	1	
R0004	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1		C0515	F1H1H200A004	C.CAPACITOR CH 50V 20P	Ī	1	
R0005	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1		C0516	F3F1A1060001	T.CAPACITOR CH 10V 10U		1	
R0006	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		C0518,19	F1H1E104A016	C.CAPACITOR CH 25V 0.1U		2	
R0007	ERJ3GEYJ302	M.RESISTOR CH 1/16W 3K	1		C0520	F3F1A1060001	T.CAPACITOR CH 10V 10U		1	
R0008	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1		C0521	F3F0J3360001	T.CAPACITOR CH6.3V 33U		1	
R0009	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1		C0522	F3F1A1060001	T.CAPACITOR CH 10V 10U		1	
W0001	BP120J1	LEAD	1		CF0101	J0E5004B0001	LCR FILTER		1	
					CF0102	J0E9604B0002	LCR FILTER	1	1	
					CF0301	J0E5004B0001	LCR FILTER	1	1	
					CF0302	J0E9604B0002	LCR FILTER	1	1	
					CF0501	J0E5004B0001	LCR FILTER	4	1	
					CF0502	J0E9604B0002	LCR FILTER	1	1	
■ E16	WE600PKE1B	P AMP C.B.A.	1	(RTL)	 			1		
					D0100	MA165	DIODE	+	1	
	=======================================	T 01010/T07 700 00			D0300	MA165	DIODE	+	1	
C0001	F3H1C6860001	T.CAPACITOR CH 16V 68U	1		D0500	MA165	DIODE	+	1	
C0002	F3F1A1060001	T.CAPACITOR CH 10V 10U	1		10001	V41.01.4.03.00.00.	CONNECTOR	+	_	
C0003	F3F1C225A006	T.CAPACITOR CH 16V 2.2U	1		J0001	K1MM16B00003	CONNECTOR	4	1	
C0005-07	F3H1C6860001	T.CAPACITOR CH 16V 68U	3		J0002	K1MZ06B00001	CONNECTOR	+	1	
C0008	F3G1A3360001	T.CAPACITOR CH 10V 33U	1		J0003	K1MZ10B00003	CONNECTOR	+	1	
C0009	F3F1A1060001	T.CAPACITOR CH 10V 10U	1		10404	C1C2D7 I00000	COII	+	_	
C0010 C0012	F3F1C225A006 F3G1A3360001	T.CAPACITOR CH 16V 2.2U T.CAPACITOR CH 10V 33U	1		L0101	G1C2R7J00003 G1C2R7J00003	COIL	+	1	
C0012 C0101	F3G1A3360001 F3F1A1060001		1		L0301 L0501	G1C2R7J00003 G1C2R7J00003	COIL	+	1	
C0101 C0102	F3F1A1060001 F1H1H151A231	T.CAPACITOR CH 10V 10U C.CAPACITOR CH 50V 150P	1		LU3U I	J 102K/J00003	OOIL	+	1	
C0102 C0103	F1H1H151A231 F1H1E104A016	C.CAPACITOR CH 50V 150P C.CAPACITOR CH 25V 0.1U	1		Q0001	2SB0766AHL	TRANSISTOR	+	4	
C0103	F3G1C2260001	T.CAPACITOR CH 25V 0.10	1		Q0001 Q0002	2SB0766AHL 2SD0874AHL	TRANSISTOR	+	1	
C0104 C0105	F1H1H180A231	C.CAPACITOR CH 16V 22U	1		Q0002 Q0101	2SD0874AHL 2SA15320CL	TRANSISTOR	+	1	
	F1H1H180A231 F1H1H150A004		1		Q0101 Q0102	2SA15320CL 2SC39310YL		+	1	
C0106		C.CAPACITOR CH 50V 15P	1			ļ	TRANSISTOR	+	1	
C0107 C0108	F1H1H180A231 F3F1C1060002	C.CAPACITOR CH 50V 18P T.CAPACITOR CH 16V 10U	1		Q0103 Q0104	2SA15320CL B1CFDA000001	TRANSISTOR FET	1	1	
C0108	F1H1E104A016	C.CAPACITOR CH 16V 100	1		Q0104 Q0105	2SC39310YL	TRANSISTOR	+	1	
			1			ļ		+	1	
C0110 C0111	F1H1H390A231 F3F1A1060001	C.CAPACITOR CH 50V 39P T.CAPACITOR CH 10V 10U	1		Q0106 Q0107	2SA15320CL B1CFDA000001	TRANSISTOR FET	+	1	
CUIII	1 3F 1A 100000T	I.OAFACITOR OF TOV 100	1		Q0107	PICEDW000001	L	+	- 1	
					<u> </u>			+		
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pc	s Remarks
Q0108	2SC39310YL	TRANSISTOR	1		R0113	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	Ī	
Q0109	2SA15320CL	TRANSISTOR	1		R0114	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	Ľ	
Q0110	B1CFDA000001	FET	1		R0115	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	Ľ	
Q0111,12 Q0113	2SC39310YL	TRANSISTOR TRANSISTOR	2		R0116 R0117	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K M.RESISTOR CH 1/16W 30K	H.	
Q0113 Q0114	2SD1819AHL 2SC39310YL	TRANSISTOR	1		R0118	ERJ3GEYJ303 ERJ3GEYJ220	M.RESISTOR CH 1/16W 30K M.RESISTOR CH 1/16W 22	۲.	
Q0115	2SD1819AHL	TRANSISTOR	1		R0119,20	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	+	2
Q0116-18	2SA15320CL	TRANSISTOR	3		R0121	ERJ3GEYJ752	M.RESISTOR CH 1/16W 7.5K	1	
Q0119	2SC39310YL	TRANSISTOR	1		R0122	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K		
Q0120-23	2SA15320CL	TRANSISTOR	4		R0123	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0		
Q0124	2SD1819AHL	TRANSISTOR	1		R0124	ERJ3GEYJ752	M.RESISTOR CH 1/16W 7.5K		
Q0125	2SC39310YL	TRANSISTOR	1		R0125	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	<i>\\</i>	
Q0126	2SD1819AHL	TRANSISTOR	1		R0126	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	Ľ	
Q0127 Q0128	2SC39310YL 2SA15320CL	TRANSISTOR TRANSISTOR	1		R0127 R0128	EVM7JGA00B12 ERJ3GEYJ155	V.RESISTOR 100 M.RESISTOR CH 1/16W 1.5M	H.	
Q0128 Q0302	2SC39310YL	TRANSISTOR	1		R0129	ERJ3GEYJ302	M.RESISTOR CH 1/16W 1.5M M.RESISTOR CH 1/16W 3K	١.	
Q0302 Q0303	2SA15320CL	TRANSISTOR	1		R0130	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	٠.	
Q0304	B1CFDA000001	FET	1		R0131	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220		
Q0305	2SC39310YL	TRANSISTOR	1		R0132	ERJ3GEYJ752	M.RESISTOR CH 1/16W 7.5K	١.	
Q0306	2SA15320CL	TRANSISTOR	1		R0133	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0		
Q0307	B1CFDA000001	FET	1		R0134	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K		
Q0308	2SC39310YL	TRANSISTOR	1		R0135	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	L.	
Q0309	2SA15320CL	TRANSISTOR	1		R0136	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	<i>\\</i>	
Q0310	B1CFDA000001	FET	1		R0137	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	Ľ	1
Q0311,12 Q0313	2SC39310YL 2SD1819AHL	TRANSISTOR TRANSISTOR	1		R0138 R0139	ERJ3GEYJ752 ERJ3GEYJ562	M.RESISTOR CH 1/16W 7.5K M.RESISTOR CH 1/16W 5.6K	H.	
Q0313 Q0314	2SD1819AHL 2SC39310YL	TRANSISTOR TRANSISTOR	1		R0139 R0140	ERJ3GEYJ562 ERJ3GEYG152	M.RESISTOR CH 1/16W 5.6K M.RESISTOR CH 1/16W 1.5K	H.	
Q0314 Q0315	2SD1819AHL	TRANSISTOR	1		R0140 R0141,42	ERJ3GEYG152 ERJ3GEYJ331	M.RESISTOR CH 1/16W 1.5K M.RESISTOR CH 1/16W 330	+	
Q0316-18	2SA15320CL	TRANSISTOR	3		R0143	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	Ė	
Q0319	2SC39310YL	TRANSISTOR	1		R0144,45	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
Q0320-23	2SA15320CL	TRANSISTOR	4		R0146	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K		
Q0324	2SD1819AHL	TRANSISTOR	1		R0147	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K		
Q0325	2SC39310YL	TRANSISTOR	1		R0148	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	ļ ·	
Q0326	2SD1819AHL	TRANSISTOR	1		R0149	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	<i>\\</i>	
Q0502	2SC39310YL	TRANSISTOR	1		R0150	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K		
Q0503	2SA15320CL	TRANSISTOR	1		R0151,52	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	2
	B1CFDA000001 2SC39310YL	TRANSISTOR	1		R0153 R0154	ERJ3GEYJ391 ERJ3GEYJ101	M.RESISTOR CH 1/16W 390 M.RESISTOR CH 1/16W 100	Η.	
Q0506	2SA15320CL	TRANSISTOR	1		R0155	EVM7JGA00B23	V.RESISTOR CH 1/10W 100	۲.	
	B1CFDA000001	FET	1		R0156	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	۲.	
Q0508	2SC39310YL	TRANSISTOR	1		R0157	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390		
Q0509	2SA15320CL	TRANSISTOR	1		R0158	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K		
Q0510	B1CFDA000001	FET	1		R0159	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K		
	2SC39310YL	TRANSISTOR	2		R0163	EVM7JGA00B23	V.RESISTOR 2K	<u> </u>	
Q0513	2SD1819AHL	TRANSISTOR	1		R0165	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K		
Q0514	2SC39310YL	TRANSISTOR	1		R0167	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	H.	
Q0515 Q0516-18	2SD1819AHL 2SA15320CL	TRANSISTOR TRANSISTOR	1		R0170 R0171	ERJ3GEYG102 ERJ3GEY0R00	M.RESISTOR CH 1/16W 1K M.RESISTOR CH 1/16W 0	H.	
	2SC39310YL	TRANSISTOR	1		R0304		M.RESISTOR CH 1/16W 7.5K	١.	
	2SA15320CL	TRANSISTOR	4		R0305		M.RESISTOR CH 1/16W 7.5K	۲.	
	2SD1819AHL	TRANSISTOR	1		R0306		M.RESISTOR CH 1/16W 22K	1	
Q0525	2SC39310YL	TRANSISTOR	1		R0307	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	T.	
Q0526	2SD1819AHL	TRANSISTOR	1		R0308	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	Ι.	
Q0527	2SC39310YL	TRANSISTOR	1		R0309	ERJ3GEYJ752	M.RESISTOR CH 1/16W 7.5K	Γ.	
Q0528	2SA15320CL	TRANSISTOR	1		R0310	ERJ3GEYJ241	M.RESISTOR CH 1/16W 240	1	
					R0311	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	Ľ	
R0003	ERJ3RBD163	M.RESISTOR CH 1/16W 16K	1		R0312	ERJ3GEYJ242	M.RESISTOR CH 1/16W 2.4K	Ľ	1
R0004	ERJ3RBD473	M.RESISTOR CH 1/16W 47K M.RESISTOR CH 1/16W 1K	1		R0313	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	+	
R0005 R0007	ERJ3GEYG102 ERJ3GEY0R00	M.RESISTOR CH 1/16W 1K M.RESISTOR CH 1/16W 0	1		R0314 R0315	ERJ3GEYJ153 ERJ3GEY0R00	M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 0	H.	
R0007 R0009	ERJ3RBD273	M.RESISTOR CH 1/16W 0	1		R0316	ERJ3GEY0R00 ERJ3GEYG102	M.RESISTOR CH 1/16W 0	+	
R0010	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R0317	ERJ3GEYJ303	M.RESISTOR CH 1/16W 30K	1	
R0012	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1		R0318	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	T.	
R0013	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R0319,20	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	2	2
R0101,02	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	2		R0321	ERJ3GEYJ752	M.RESISTOR CH 1/16W 7.5K		
R0103	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1		R0322	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	Ľ	
R0104	ERJ3GEYJ752	M.RESISTOR CH 1/16W 7.5K	1		R0323	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	<u> </u>	
R0105	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R0324	ERJ3GEYJ752	M.RESISTOR CH 1/16W 7.5K	<u> </u>	
R0106	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1		R0325	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	Ľ	
R0107	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1		R0326	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	H	
R0108 R0109	ERJ3GEY0R00 ERJ3GEYJ752	M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/16W 7.5K	1		R0327 R0328	EVM7JGA00B12 ERJ3GEYJ155	V.RESISTOR 100 M.RESISTOR CH 1/16W 1.5M	H.	
110108	ERJ3GEYJ752 ERJ3GEYJ241	M.RESISTOR CH 1/16W 7.5K	1		R0329	ERJ3GEYJ302	M.RESISTOR CH 1/16W 1.5M M.RESISTOR CH 1/16W 3K	١.	
			1 '					+	+
R0110 R0111	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R0330	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R0110		M.RESISTOR CH 1/16W 100 M.RESISTOR CH 1/16W 2.4K	1		R0330 R0331	ERJ3GEYG102 ERJ3GEYJ221	M.RESISTOR CH 1/16W 1K M.RESISTOR CH 1/16W 220	-	
R0110 R0111	ERJ3GEYJ101		_						

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Po	s Remarks
R0332	ERJ3GEYJ752	M.RESISTOR CH 1/16W 7.5K	1		R0555	EVM7JGA00B23	V.RESISTOR 2K		1
R0333	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R0556	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K		1
R0334	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1		R0557	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390		1
R0335	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1		R0558	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K		1
R0336	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1		R0559	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K		1
R0337	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1		R0563	EVM7JGA00B23	V.RESISTOR 2K		1
R0338	ERJ3GEYJ752	M.RESISTOR CH 1/16W 7.5K	1		R0565	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K		1
R0339	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1		R0567	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K		1
R0340	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1		R0570	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K		1
R0341,42	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2		R0580,81	ERDS2TJ102	C.RESISTOR 1/4W 1K		2
R0343	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1						
	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2		U0001	NJM2904D	IC		1
R0346	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1		U0101	TC4W53FU	IC		1
R0347	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		U0301	TC4W53FU	IC	1	1
R0348	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		U0501	TC4W53FU	IC	1	1
R0349	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1					+	
R0350	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1					+	
R0351,52	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2					-	
R0353	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1					+	
R0354	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		I 547	VEDOCDOS*	D SIDE C B A	-	1 (DTL)
R0355	EVM7JGA00B23 ERJ3GEYJ222	V.RESISTOR 2K	1		■ E17	VEP80B98A	R SIDE C.B.A.	+	1 (RTL)
R0356 R0357	ERJ3GEYJ222 ERJ3GEYJ391	M.RESISTOR CH 1/16W 2.2K M.RESISTOR CH 1/16W 390	1					+	
			1		B1	BCR20H4	BUTTON BATTERY HOLDER	+	1
R0358 R0359	ERJ3GEYJ153 ERJ3GEYJ222	M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 2.2K	1		DI DI	DORZUH4	DOLLON BALLERT HOLDER	-	1
R0359 R0363	EVM7JGA00B23	V.RESISTOR CH 1/16W 2.2K	1		C1	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	+	1
R0370	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		C2	F1J0J475A006	C.CAPACITOR CH 50V 0.010	+	1
R0371	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		C3-C5	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	+	3
R0504	ERJ3GEYJ752	M.RESISTOR CH 1/16W 0	1		C3-C5	ECEA0JSN470	E.CAPACITOR CH 50V 0.010	+	1
R0504	ERJ3GEYG102	M.RESISTOR CH 1/16W 7.5K	1		C7	ECEA033N470 ECEA1CSN4R7	E.CAPACTOR 0.3V 47U		1
R0506	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1		- O.	LOLITIO	2.67.17.07.01.1	╁	
R0507	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1		D1-D5	MA142WK	DIODE	+	5
R0508	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		D6	MA142WA	DIODE	╁	1
R0509	ERJ3GEYJ752	M.RESISTOR CH 1/16W 7.5K	1		D7-18	MA142WK	DIODE	1	2
R0510	ERJ3GEYJ241	M.RESISTOR CH 1/16W 240	1					t	
R0511	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		IC1	UPD16431AGC	IC		1 C0HBA0000023
R0512	ERJ3GEYJ242	M.RESISTOR CH 1/16W 2.4K	1					T	
R0513	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		P1	VWJ03D5065AA	FLAT CABLE	T	1
R0514	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1		P2	VEE0N21	R SIDE CABLE	Ť	1
R0515	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		P3	K1MN18B00013	CONNECTOR	Ť	1
R0516	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		P4	VEE0N23	MENU JOG CABLE		1
R0517	ERJ3GEYJ303	M.RESISTOR CH 1/16W 30K	1		P5	VJP1243T	CONNECTOR (MALE) 3P		1
R0518	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1		P6	VWJ12D5060AA	FLAT CABLE		1
R0519,20	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	2		P7	VEE0N22	POWER SW CABLE		1
R0521	ERJ3GEYJ752	M.RESISTOR CH 1/16W 7.5K	1						
R0522	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		QR1,R2	UNR511300L	TRANSISTOR-RESISTOR		2
R0523	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1						
R0524	ERJ3GEYJ752	M.RESISTOR CH 1/16W 7.5K	1		R1	ERJ6GEYG331	M.RESISTOR CH 1/10W 330		1
R0525	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R4,R5	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K		2
		M.RESISTOR CH 1/16W 150	1		R6		M.RESISTOR CH 1/10W 330		1
R0527	EVM7JGA00B12		1		R7	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	1
R0528	ERJ3GEYJ155	M.RESISTOR CH 1/16W 1.5M	1		R8,R9	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K		2
R0529	ERJ3GEYJ302	M.RESISTOR CH 1/16W 3K	1		R11-14	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	4
R0530	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R15	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	-	1
R0531	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1		R16	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	1
R0532	ERJ3GEYJ752	M.RESISTOR CH 1/16W 7.5K	1		R17	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	-	1
R0533	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R18	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	-	1
R0534	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1		R19-22	ERJ8GEYJ101	M.RESISTOR CH 1/8W 100	-	4
R0535	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1		R23	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0		1
R0536	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1		R25-28	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	4
R0537	ERJ3GEYJ751	M.RESISTOR CH 1/16W 750	1		R33-36	ERJ8GEYJ102	M.RESISTOR CH 1/8W 1K	-	4
R0538	ERJ3GEYJ752	M.RESISTOR CH 1/16W 7.5K	1		R37	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	-	· ·
	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1		R38-42	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	5
R0540 R0541,42	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2		SW1	K0D123A00042	SWITCH	-	1
R0541,42 R0543	ERJ3GEYJ331 ERJ3GEYG822	M.RESISTOR CH 1/16W 330 M.RESISTOR CH 1/16W 8.2K	1		SW1	K0D123A00042 K0D123A00060	SWITCH	+	1
R0543 R0544,45	ERJ3GEYG822 ERJ3GEYJ331	M.RESISTOR CH 1/16W 8.2K M.RESISTOR CH 1/16W 330	2		SW2 SW3	K0D123A00060 K0D123A00042	SWITCH	+	1
R0544,45 R0546	ERJ3GEYJ331 ERJ3GEYG822	M.RESISTOR CH 1/16W 330 M.RESISTOR CH 1/16W 8.2K	1			K0D123A00042 K0D123A00060	SWITCH	+	2
	ERJ3GEYG822 ERJ3GEYJ222	M.RESISTOR CH 1/16W 8.2K	1		SW4,W5 SW6	K0D123A00060 K0D123A00042	SWITCH	+	1
R0547	ERJ3GEYJ222 ERJ3GEYG102	M.RESISTOR CH 1/16W 2.2K M.RESISTOR CH 1/16W 1K	1		SW6 SW7	K0D123A00042 K0D123A00060	SWITCH	+	1
R0547	L. 000C 10 102	M.RESISTOR CH 1/16W 2.2K	1		SW8	K0D123A00060 K0D123A00042	SWITCH	-	1
R0548	ERJ3GEV 1999		_ '		SW9	EVQQSB04B	SWITCH	H	1
R0548 R0549	ERJ3GEYJ222 ERJ3GEYG102		- 1			_ v « «ODO4D			
R0548 R0549 R0550	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1						1
R0548 R0549 R0550 R0551,52	ERJ3GEYG102 ERJ3GEYJ103	M.RESISTOR CH 1/16W 1K M.RESISTOR CH 1/16W 10K	2			VRV0080	V RESISTOR		2 D2BCA14A0001
R0548 R0549 R0550 R0551,52 R0553	ERJ3GEYG102 ERJ3GEYJ103 ERJ3GEYJ391	M.RESISTOR CH 1/16W 1K M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 390	1		VR1,R2	VRV0080	V.RESISTOR		2 D2BCA14A0001
R0548 R0549 R0550 R0551,52	ERJ3GEYG102 ERJ3GEYJ103	M.RESISTOR CH 1/16W 1K M.RESISTOR CH 1/16W 10K	2			VRV0080	V.RESISTOR		2 D2BCA14A0001

		1	1			1	T		<u> </u>
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
		MISCELLANEOUS							
	VWB0123	CLAMPER	1						
					E22	VEP80C02A	FRONT TOGGLE SW C.B.A.	1	(RTL)
					L1-L5	VLF1315A102	FILTER	5	J0JHC0000015
					L6	J0JKC0000009	FILTER	1	
■ E18	VEP80B99A	SCERNE FILE C.B.A.	1	(RTL)	L7-L9	VLF1315A102	FILTER	3	J0JHC0000015
			+	()				Ť	
			+		P1	VJP1598T	CONNECTOR (MALE) 5P	1	K1KA05A00104
C8	F1J0J475A006	C.CAPACITOR CH6.3V 1U	1		P2	VJP1230T	CONNECTOR (MALE) 3P	1	10100100104
	1 1000-17 57 1000	0.074 NOTTON 0110.0V	+ '		P4	VJP3125B010		-	K1KA10B00136
D24 24	MA142WK	DIODE	4		P5	VJS3826A020	CONNECTOR (MALE)	<u>'</u>	K 1KA 10B00 130
D21-24	IVIA 142VVK	DIODE	- "		Po	VJ53626A020	CONNECTOR (FEMALE)	<u> </u>	
			₩.					<u>.</u>	
P9	VWJ07D5030AA	FLAT CABLE	1		R2	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
			1		R3	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R30	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1		R4	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R31	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1		R5	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R32	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1						
R43	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		SW1	VST0194	SWITCH	1	K0E132A00002
R44	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1		SW2	VST0195	SWITCH	1	K0E132A00003
R45	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1						
R46	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1				MISCELLANEOUS		
R47	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1			1			
R48	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1			VMP6783	C.B.A. HOLDER ANGLE	1	
			+ '					t '	
SW11	EVQQS205K	SWITCH	1					t	
	+		-		-				
SW12	K0G119A00024	SWITCH	1		<u> </u>			1	
VD2	DODDO4 WOOCC	V DECICTOR 4014	+		 	1		1	
VR3	D2BBC14Y0003	V.RESISTOR 10K	1					-	
			-		■ E23	VEP80C20A	REMOTE MAINTENANCE C.B.A.	1	(RTL)
			-						
					C70-76	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
■ E19	VEP80C00A	AUTO IRIS C.B.A.	1	(RTL)	IC70	THC4052FT	IC	1	
					IC71	MAX3223CAP	IC	1	C0ZBZ0000220
D19	LN48YCPP	LED	1		P70	VJS3826A020	CONNECTOR (FEMALE)	1	
			+		P71	VJP3969A009	CONNECTOR (MALE)	1	K1FA109A0005
SW13	EVQQS205K	SWITCH	1						
SW14	K0D123A00060	SWITCH	1		R70	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
SW15	EVQQS205K	SWITCH	+		R71,72	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
34413	LVQQS205K	SWITCH	+ '		R73	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
		MICOELLANEOUS	-					<u> </u>	
		MISCELLANEOUS	-		R76,77	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
			1					L .	
	VMX2126	LED SPACER	1		SW70	VSS0557TB	SWITCH	1	K0N110A00021
			\perp					<u>L</u>	
■ E20	VEP80C01A	LED C.B.A.	1	(RTL)	■ E24	VEP80B96A	MENU JOG C.B.A.	1	(RTL)
	1		1						
	1	1	1			1		l	
D20	B3CKE0000005	LED	1		J1	VJR1094	TERMINAL	1	
520	SOCIALOUUUUU		+ '			-0111004	. C. MINITAL	+ '	
		i contract of the contract of	1		P1	VJP3125B007	CONNECTOR (MALE)	1	
		MISCELLANEOUS		Î.	F1	VJF3129BUU/	CONNECTOR (MALE)	1 1	
		MISCELLANEOUS							ĺ
	VALVADOS.				01411	E)/000055=:/	OMITOU		
	VMX3083	MISCELLANEOUS LED SPACER	1		SW1	EVQQS205K	SWITCH	1	
	VMX3083		1		SW1 SW2	EVQQS205K EVQWK4001	SWITCH JOG ENCODER SW	1	
	VMX3083		1					-	
	VMX3083		1					-	
	VMX3083		1					-	
								-	
■ E21	VMX3083 VEP80B94A			(RTL)				-	
■ E21		LED SPACER		(RTL)				1	(RTL)
■ E21		LED SPACER		(RTL)	SW2	EVQWK4001	JOG ENCODER SW	1	
■ E21		LED SPACER		(RTL) K1KA09A00023	SW2	EVQWK4001	JOG ENCODER SW	1	
	VEP80B94A	LED SPACER TOGGLE SW C.B.A.			SW2 ■ E25	EVQWK4001 VEP80B97A	JOG ENCODER SW POWER SW C.B.A.	1	(RTL)
P1	VEP80B94A VJP1236T	TOGGLE SW C.B.A. CONNECTOR (MALE) 9P	1	K1KA09A00023	SW2	EVQWK4001	JOG ENCODER SW	1	
P1 SW1-W3	VEP80B94A VJP1236T K0E113A00005	LED SPACER TOGGLE SW C.B.A. CONNECTOR (MALE) 9P SWITCH	1 1 3	K1KA09A00023	SW2 ■ E25	EVQWK4001 VEP80B97A	JOG ENCODER SW POWER SW C.B.A.	1	(RTL)
P1	VEP80B94A VJP1236T	TOGGLE SW C.B.A. CONNECTOR (MALE) 9P	1	K1KA09A00023	SW2 ■ E25	EVQWK4001 VEP80B97A	JOG ENCODER SW POWER SW C.B.A.	1	(RTL)
P1 SW1-W3	VEP80B94A VJP1236T K0E113A00005	LED SPACER TOGGLE SW C.B.A. CONNECTOR (MALE) 9P SWITCH	1 1 3	K1KA09A00023	SW2 ■ E25	EVQWK4001 VEP80B97A	JOG ENCODER SW POWER SW C.B.A.	1	(RTL)
P1 SW1-W3	VEP80B94A VJP1236T K0E113A00005	LED SPACER TOGGLE SW C.B.A. CONNECTOR (MALE) 9P SWITCH	1 1 3	K1KA09A00023	SW2 ■ E25	EVQWK4001 VEP80B97A	JOG ENCODER SW POWER SW C.B.A.	1	(RTL)
P1 SW1-W3	VEP80B94A VJP1236T K0E113A00005	LED SPACER TOGGLE SW C.B.A. CONNECTOR (MALE) 9P SWITCH	1 1 3	K1KA09A00023	SW2 ■ E25	EVQWK4001 VEP80B97A	JOG ENCODER SW POWER SW C.B.A.	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E26	VEP80C08A	BREAKER C.B.A.	1	(RTL)
L200	VLP0320	COIL	1	
L201,02	VLF1151A132	COIL	2	
P200	VJP2824A002	CONNECTOR (MALE)	_	K1KA02A00009
P201	VJP2824A004	CONNECTOR (MALE)	1	K1KA04A00005
⚠ SW200	VSQ0834	CIRCUIT PROTECTOR	1	K5JDHB000002
		MISCELLANEOUS		
	VEE0N06	BREAKER CABLE	1	
	VELONOO	BREAKEN GABLE	Ė	
■ E27	VEP00X87D	DC INPUT C.B.A.	1	(RTL)
D1	S3V40	DIODE	1	
		MISCELLANEOUS		
	V ID2717	CONNECTOR (MALE)	1	K1AA104H0021
		CONNECTOR (MALE) DC INPUT CABLE	1	K 184 104 1002 1
■ E28	VEP000U0A	HEAD PHONE C.B.A.	1	(RTL)
C700,01	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	F1H1H102A009
J700	VJJ0522	JACK	1	K2HC103B0082
L700,01	VLP0352	FERRITE CORE	2	
■ E29	VEP80C12A	FRONT MIC C.B.A.	1	(RTL)
J600	VJS3417	CONNECTOR (FEMALE)	1	K1AB103A0007
P600	VEE-K41-P600	CONNECTOR	1	
R600-03	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
■ E30	VEP80A74B	BACK TALLY C.B.A.	1	(RTL)
			L	
D1	TLRA116	DIODE	1	
		MISCELLANEOUS		
	VEE9418	CABLE	1	
	VMX2126	LED SPACER	1	

SECTION 1

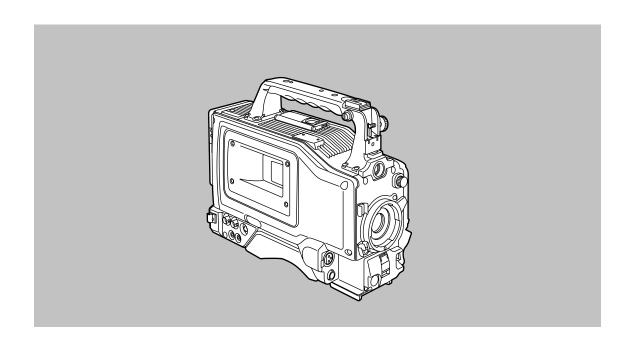
OPERATING INSTRUCTIONS

Operating Instructions

NTSC

Digital Video Camera Recorder

AG-IWG2IIIP



Panasonic_®

Before attempting to connect, operate or adjust this product, please read these instructions completely.

P

* This camera recorder is designed to be used exclusively with the standard size of DV tapes. Do not use DVCPRO tapes or other sizes of tapes.



CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (service) instructions in the literature accompanying the appliance.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER CHANGE OF SWITCH SETTING INSIDE THE UNIT TO QUALIFIED SERVICE PERSONNEL.

FCC Note:

This device complies with Part 15 of the FCC Rules. To assure continued compliance follow the attached installation instructions and do not make any unauthorized modifications.

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Replace battery with part No. CR2032 only.

Use of another battery may present a risk of fire or explosion.

Caution—Battery may explode if mistreated.

Do not recharge, disassemble or dispose of in fire.



ATTENTION:

The product you have purchased is powered by a nickel cadmium battery which is recyclable. At the end of it's useful life, under various state and local laws, it is illegal to dispose of this battery into your municipal waste stream.

Please call 1-800-8-BATTERY for information on how to recycle this battery.

indicates safety information.

CONTENTS

Introduction	4
Features	
Features of camera unit	
Features of VTR unit	4
System configuration	5
Parts and their functions	
Preparations	.10
Using the AU-BP402 or AJ-BP490	
battery pack made by Panasonic	
Using a battery pack made by Anton Bauer	
Using the NP-1B battery pack made by Sony	11
Using an AC power supply (with the AJ-B75 AC adapter)	12
Attaching the lens	
Mounting the unit on a tripod	13
Detaching the unit from the tripod attachment	13
Attaching the viewfinder and microphone	13
Attaching the shoulder belt	13
Setting the camera ID	
Setting the date and time	14
Lens adjustments and checks	.15
Flange back adjustment	15
White shading check	15
White shading adjustment	15
Viewfinder displays	.16
Viewfinder lamp displays	16
Viewfinder screen status displays	16
Selecting the viewfinder screen display	19
White balance and black balance adjustment	.20
Automatic white balance adjustment	20
Automatic black balance adjustment	20
Electronic shutter settings	.21
Concerning the shutter modes	21
Setting the shutter mode and speed	
Setting the synchro scanning mode	21
Time data settings	.22
Setting the user's bit	
Setting the time code	22
Scene files	
Scene file function	
Scene file setting method	
Editing scene filenames (USER files)	
Returning a scene filename to its default	
How to use file select	
List of scene file settings	
List of file settings	25

Normal recording	.26
Recording methods	26
Scene-to-scene continuity	26
Audio recording	.27
Selecting the audio input signals	27
Adjusting the recording level	27
Monitoring the sound during recording	27
Playback (checking what has been recorded)	.28
Rec review	28
Other functions	.28
Still-picture playback	28
INTERVAL REC (intermittent recording) function	28
Variable speed (FF/REW) playback	28
INDEX SEARCH mode	28
Using the unit with external components	.29
Connection to a video component	
with DV connector	
Connection to a PC capable of non-linear editing	
Menu operations	
Menu display enable/disable	
Displaying sub-menus and deciding on settings.	
Setting menu configuration	.31
Menu contents	
SCENE menu (main menu)	32
MAIN menu 1 of 2 (main menu)	
MAIN menu 2 of 2 (main menu)	35
Warning system	.39
Emergency eject	.39
Maintenance	.40
Condensation	40
Replacing the backup battery	.40
Cleaning the heads	40
Cleaning inside the viewfinder	40
Concerning phenomena inherent	40
to CCD cameras	
Error codes	
Specifications	.41

Introduction

This is the first DV format integrated camera VTR that supports standard cassettes. It combines the digital camera technology fostered by broadcast equipment with the dependability of the DVCPRO mechanism. It has a compact size, light weight and low-

power consumption, and it is capable of recording for many hours. Both its camera unit and VTR unit incorporate digital signal processing to achieve even greater improvements in picture quality and stability.

Features

Features of camera unit

• 1/2 type IT 3-CCD configuration

The camera's high resolution of about 800 lines and its minimum subject brightness of 0.5 lux make easy work of shooting under low lighting conditions, and they achieve bright camera images with a high sensitivity.

Digital processing incorporated

Full-blown digital processing circuitry fostered by broadcasting applications is featured to ensure a high performance, sophisticated functions and a high level of dependability.

Replacement lens system

The bayonet system is employed to enable 1/2 lenses made by Fujinon or Canon to be mounted for use.

CC/ND filter with a 4-leaf configuration adopted as a standard accessory

This configuration enables the optimum filter for the subject brightness and color temperature to be selected.

Shooting support functions

Scene file dial

This makes it easy to select six scene file settings to suit the prevailing shooting conditions.

ATW (auto tracking white) function

The auto tracking white function comes in handy when shooting successive scenes with different light sources.

Quick focus function

This automatically controls the iris and shutter to provide support for ensuring easy focusing.

Full auto function

This is useful for emergency shooting when, for instance, there is not enough time to perform the camera settings.

Auto iris mode selection function

This enables three auto iris settings to be selected. The settings can easily be switched to match the shooting conditions.

Menu jog dial system

A jog dial button enabling easy menu settings is provided on the front panel of the camera.

Features of VTR unit

DV format

The VTR unit compresses the images using a component digital recording system that incorporates the latest compression technology. For recording the sound, the unit uses noncompression PCM recording which achieves an excellent signal-to-noise ratio, frequency band, waveform characteristics and reproducibility of the finely detailed parts. Both picture quality and sound quality are taken to new heights by this format.

Standard tape drive

The DVCPRO mechanism with its proven track recorded in broadcasting applications has been put to use to ensure the same high level of dependability while at the same time enabling long recordings lasting up to a maximum of 270 minutes.

High system capabilities

The unit comes with DV connectors as a standard accessory. These enable hookup with other DV components and DV non-linear devices.

The battery packs made by Anton Bauer and battery systems made by other companies are all supported.

Other features

Frame-to-frame continuity

Simply by pressing the VTR START button or VTR button on the lens, the continuity from one frame to the next is assured with a precision of 0 to \pm 1 frame or less.

Rec review function

This automatically rewinds the tape for the last 2 to 10 seconds recorded and plays back the recording. This enables what was recorded to be monitored without delay.

Built-in time code generator/reader

This enables the time code information to be recorded on the dedicated sub-code track and played back.

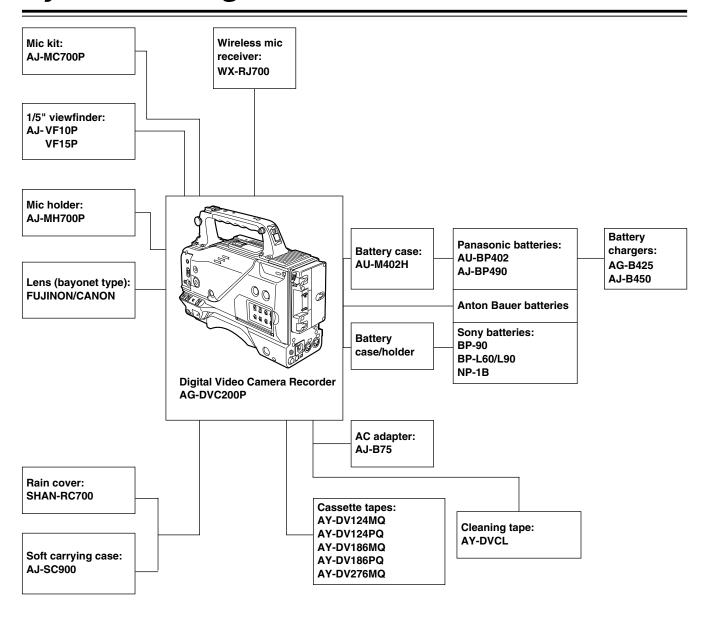
Time stamp function

This superimposes the date and time onto the camera's images and records them.

Interval rec function

This function enables simply interval shooting. It is particularly effective for shooting programs on nature or art.

System configuration

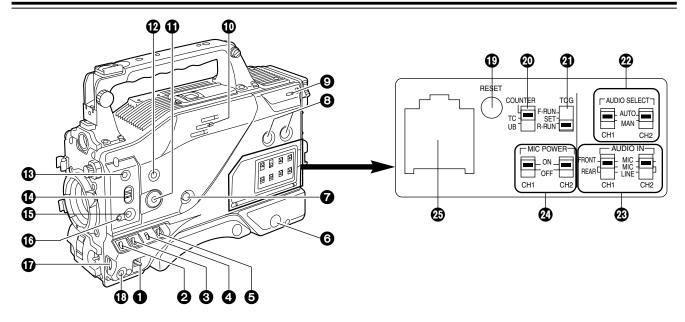


<Note> Checking the lens shading compensation

This unit comes with a function which provides shading compensation for the lens. Check that the compensation is optimum for the type of lens used. For further details, refer to "Lens adjustments and checks" (page 15).

Lens shading compensation data selection

Lens classification	Α	В	С	USER
Lens type	S18 x 6.7BERM4 S18 x 6.7BRM4 S19 x 6.5BERM4 S19 x 6.5B YH18 x 6.7IRS YH12 x 4.8IRS	YH18 x 6.7KRS YH14 x 7.3KRS YH12 x 4.8KRS S14 x 7.5BRM4 S17 x 6.6BRM4	S14 x 7.3BRM (For AG-DVC200D)	Lens other than A, B or C



POWER switch

This switch turns the power ON and OFF.

2 VTR STBY/SAVE (tape protection) switch

This switches the power supply mode when the VTR is set to the rec pause mode in which recording is temporarily suspended.

STBY: In this mode, recording starts immediately by pressing the VTR START button.

SAVE: This is the tape protection mode. The tape drum is stopped in the half-loading status. Less power is consumed at this position than at the STBY position so that the battery will supply power to the unit for a longer period of time.

Compared with the STBY position, more time is taken to start recording after the VTR START button is pressed. When the switch is set to the SAVE position, the VTR SAVE lamp inside the viewfinder lights up.

<Note>

When the PAUSE TIMER time (initial setting: 10 minutes) has elapsed in the STBY mode, the unit is automatically set to the SAVE mode. For further details, refer to the table for <VTR OPTION> in the section on the sub-menu screens (page 34).

GAIN selector switch

When the camera screen is dark, turn this switch to a position which will increase the gain and brighten the screen.

The gain for each item can be selected on-screen. For further details, refer to the table for <SW MODE> in the section on the setting menu screens (page 33).

- L: The switch is normally set to this position. The gain at this position was set to 0 dB at the factory prior to shipment.
- **M:**The gain of the camera's video amplifier is increased. The gain at this position was set to 9 dB at the factory prior to shipment.
- **H:** The gain of the camera's video amplifier is increased even more. The gain at this position was set to 18 dB at the factory prior to shipment.

4 OUTPUT/AUTO KNEE selector switch

This switch selects the video signals which are to be output from the camera unit to the VTR unit, viewfinder and/or video monitor.

CAM, AUTO KNEE ON:

The images shot by the camera are output. The AUTO KNEE circuit operates.

CAM, AUTO KNEE OFF:

The images shot by the camera are output. The MANUAL KNEE circuit operates.

BARS:

Color bar signals are output. The AUTO KNEE circuit does not operate.

AUTO KNEE function

When shooting with the level set to people or scenes against a high-brightness background, the background will be whitened out, and the buildings and scene in the background will be blurred. If the AUTO KNEE function is activated at times like this, the background will be reproduced clearly. This function is effective for shooting in the following situations:

- When shooting people in the shade under a clear sky
- When simultaneously shooting people in a car or indoors and the outside scenery through a window
- •When shooting scenes with a strong contrast

WHITE BAL (white balance memory selector) switch

A or B:When the AUTO W/B (white/black) BAL switch on the front panel is operated to adjust the automatic white balance, the adjusted value is automatically stored in A or B.

PRST: The color temperature is set to 3200K in the preset mode. The AUTO W/B BAL switch does not work at this position.

<Reference>

The automatic tracking white balance mode (ATW) can be set to A, B or PRST. For further details, refer to the table for <SW MODE> in the section on the sub-menu screens (page 33).

BREAKER switch

If an excessively high current flows inside the unit due to some trouble or other, the circuit breaker is tripped and the power is automatically turned off to protect the unit.

Push this button in after conducting an inspection or repairs inside the unit. If there is no trouble, the power will come back on.

MONITOR (volume) control

This is used to adjust the volume of the monitor speaker or earphone.

Q AUDIO LEVEL CH1, CH2 (audio channel 1, 2 recording level) controls

These are used to adjust the CH1 and CH2 recording levels while monitoring the level meter inside the viewfinder.

9 POWER/WARNING lamp

This lamp lights up green when the power is turned on, and it flashes in green during interval recording. When a warning is given, it lights up red or flashes in red to alert the user to trouble. For further details, refer to "Warning system" (page 38).

OSPEAKER

The sound can be monitored through this speaker.

When an earphone is connected to the PHONE jack, the sound of the speaker will be automatically cut off.

What can be monitored is the mixed sound of CH1 and CH2.

10 SCENE FILE dial

This enables the camera settings that match the shooting conditions to be selected. For further details, refer to "How to use scene files" (page 24).

MODE CHECK button

This enables the setting modes of the camera's control switches to be checked in the viewfinder.

® QUICK FOCUS button

This supports the focusing of the subject. When it is pressed, the lens iris is opened for about 10 seconds. It makes the depth of field shallower and facilitates focusing.

© AUTO IRIS MODE selector switch

This is used to select the position that matches the shooting conditions when shooting by automatically adjusting the lens iris.

BACK.L: When making a back-lit subject brighter for shooting

STD: For normal shooting

SPOT.L: For shooting a spot-lit subject

1 FULL AUTO button

This is pressed when there is no time to check the camera unit's settings. The lens iris and white balance will be automatically adjusted.

(6) FULL AUTO lamp

This lights up when FULL AUTO shooting has been performed.

1 JOG dial button

This is used to select the menu items and perform settings when the MENU button is at the ON position. When the synchro scanning mode has been selected for the shutter speed, the shutter speed can be easily adjusted more finely.

MENU button

This is used to switch the menu ON and OFF.

© RESET button

This is used to reset the numerical value of the counter or time code.

<Note>

This value is reset immediately when the COUNTER has been selected. When TC or UB has been selected, the reset button works only when the TCG selector switch is at the SET position.

@ COUNTER selector switch

This is used to switch the counter display.

COUNTER:A relative numerical value is displayed by the

counter. However, when the tape recording includes discontinuous parts, the counter reading may also lack continuity.

TC: The time code is displayed. UB: The user's bit is displayed.

TCG selector switch

This sets the time code operation mode to FREE RUN, REC RUN or SET. For further details, refer to "Setting the time data" (page 22).

② AUDIO SELECT CH1, CH2 (audio channel 1, 2 auto/manual level adjustment selector) switches

These are used to select the method used to adjust the audio levels of audio channels 1 and 2.

AUTO:The audio level is adjusted automatically. **MAN:** The audio level is adjusted manually.

AUDIO IN (audio input selector) switches

These are used to select the input signals to be recorded on CH1 and CH2.

FRONT: The input signals from the microphone connected to (MIC) the MIC IN connector are recorded.

REAR : The input signals from the microphone connected to (MIC) the AUDIO IN CH1/CH2 connector are recorded.

REAR : The input signals from the line connected to the

(LINE) AUDIO IN CH1/CH2 connector are recorded.

Mic power switches

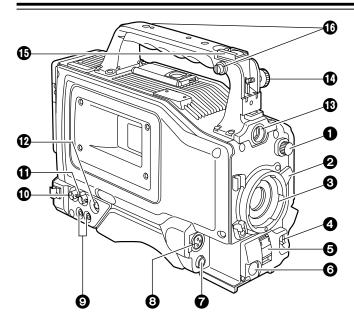
These are used to turn ON and OFF the phantom power (+48V) for each rear jack channel.

<Note>

ON or OFF can be set for supplying the phantom power of the front microphone using "FRONT MIC POWER" on the <MIC/AUDIO> sub-menu screen.

Backup battery compartment

For further details on replacing the backup battery, refer to "Replacing the backup battery" (page 40).



OC/ND filter selector knob

This is used to select the filter to match the subject brightness.

- 1:3200K
- 2:5600K+1/8ND
- 3:5600K
- 4:5600K+1/64ND

2 Lens lever

This lever is tightened to secure the lens after the lens has been attached to the lens mount.

② Lens mount (bayonet type)

The lens is attached to this mount.

4 AUTO W/B (white/black) BAL switch

AWB: The white balance is automatically adjusted. When the AWB memory selector switch on the side panel is set to A or B and then the AUTO W/B BAL switch is operated, the adjustment value is recorded in the memory. Bear in mind that the switch does not work when it is set to the ATW or PRST position.

ABB: The black balance is automatically adjusted.

6 SHUTTER switch

This is the ON/OFF selector switch of the electronic shutter.

OFF: The electronic shutter does not operate.

ON: The electronic shutter operates.

SEL: This is used when the electronic shutter speed is to be changed. The switch is a non-locking type. The shutter speed changes each time it is operated. For further details, refer to "Electronic shutter settings" (page 25).

10 VTR START/STOP button

This starts or stops the video recording.

• LENS jack (12-pin)

The connecting cord of the lens is connected to this jack. For further details on the lenses that can be used, refer to the operating instructions of the lenses concerned.

3 MIC IN (mic input) jack (XLR, 3-pin)

The accessory microphone is connected to this jack. The power for the microphone is supplied from this jack.

9 AUDIO OUT jacks (pin jacks)

An audio component is connected to these jacks. The sound for channel 1 and channel 2 is output separately.

© GENLOCK IN connector (BNC)

Supply the sync signal (black burst signal) to this connector when gen-locking the camera pictures (CAM OUT jack) of the unit

(1) CAM OUT jack

This is the dedicated output jack for the camera's pictures.

OS-VIDEO OUT jack (Y/C jack)

When pictures are to be recorded with a backup VTR connected to the S-VIDEO OUT jack, bear in mind that the unit's playback pictures will be recorded onto the backup VTR if any operation (such as REC CHECK) that performs VTR playback is executed.

Wiewfinder connector

The viewfinder plug is connected to this connector.

Wiewfinder stopper screw

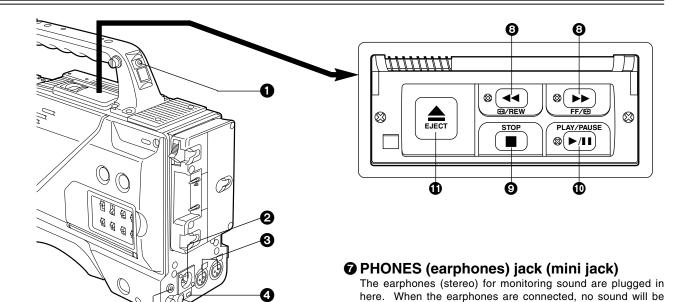
This screw is used to secure the viewfinder.

(1) Light shoe

The video light or other such device is attached here.

© Shoulder belt fittings

The shoulder belt (optional accessory) is attached here.



1 TALLY lamp

This lights up when the unit is set to the recording mode. It flashes when it is being transferred to the recording mode.

② External DC input socket

This is the input socket of the external power supply (DC power supply). When an AC adapter is connected here, power is automatically supplied from the external source.

AUDIO IN CH1, CH2 (audio input channel 1, 2) jacks (XLR, 3-pin)

An external microphone or line input signals are connected to these jacks.

3 DV I/F connector (complying with IEEE 1394 standard)

A digital video component or computer equipped with a DV connector is connected to this connector using a DV cable (optional accessory). For further details, refer to "Using the unit with external components" (page 29).

ODC OUT (DC power supply) output socket

This normally serves as the DC 12V output socket. A current of approximately 1A can be taken out.

When the HDD adapter scheduled to be developed in the future is connected here, it will be possible to supply a 7V voltage.

O VIDEO OUT jack (BNC)

This is the composite video jack for a monitor.

<Note>

When pictures are to be recorded with a backup VTR connected to the VIDEO OUT jack, bear in mind that the unit's playback pictures will be recorded onto the backup VTR if any operation (such as REC CHECK) that performs VTR playback is executed. Use the exclusive camera output jack for backup recording.

② REW (rewind)/FF (fast forward) buttons/ lamps

- When one of these buttons is pressed in the stop mode, the high-speed playback (rewind or fast forward) mode is established, and the corresponding lamp lights.
- •When one of these button is pressed in the playback mode, the 4X speed playback (rewind or fast forward) mode is established, and when the same button is pressed again, the 8X speed playback (rewind or fast forward) mode is established.

Each time the button is then pressed, the mode is switched between 4X speed playback and 8X speed playback.

 When one of these buttons is pressed in the STILL or REC PAUSE mode, the 1× speed playback (rewind or fast forward) is established while the button is held down. When the button is released, the unit returns to the previous mode (STILL or REC PAUSE).

The variable speed playback mode is released by pressing the STOP button, PLAY/PAUSE button or EJECT button.

OSTOP (stop) button

output from the speaker.

The tape stops traveling when this button is pressed. However, the button cannot be operated during recording. To stop recording, first set the unit to the REC/PAUSE mode, and then press the STOP button.

PLAY (playback)/PAUSE button/lamp

Playback commences when this button is pressed, and the lamp lights. When it is pressed again, the STILL (stop) mode is established, and the lamp flashes.

When it is pressed once more, the playback mode is restored.

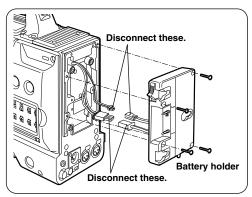
1 EJECT (eject) button

When this button is pressed, the cassette holder rises, and the cassette tape can be inserted or removed. This button cannot be operated while the unit is recording, in which case first set the unit to the REC/PAUSE mode, and then press the EJECT button.

Using the AU-BP402 or AJ-BP490 battery pack made by Panasonic

Recharge the battery pack using the battery charger specifically designed for each individual battery pack. For the charging time and other details, refer to the operating instructions of the battery charger used.

Remove the battery holder.



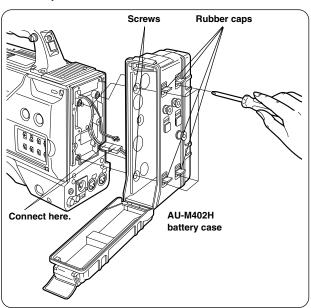
2 Install the battery case into the unit.

- ①Connect the unit's cable with the cable of the AU-M402H battery case.
- ②Use a screwdriver to install the AU-M402H battery case in the unit.

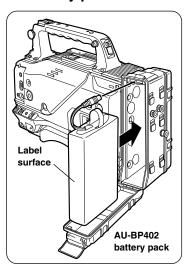
The holes for tightening the screws can be seen when the cover is opened and the rubber caps are raised. Use a screwdriver to tighten the screws, and install the battery case into the unit. Ensure that the screws are tightened up as far as they will go.

<Note>

- Do not pull the rubber caps with great force.
- Be careful not to catch up the cables when installing the battery case.



3 Connect the plug of the battery pack to the connector inside the battery case, and insert the battery pack into the case.



<Note>

The power must be turned off without fail before connecting or disconnecting the plugs.

4 Set the battery type.

Select the battery type using <BATTERY> on the sub-menu screen.

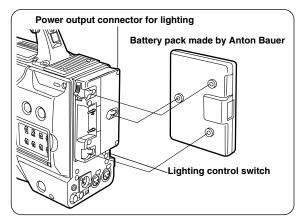
Select "TYPE A" if the AJ-BP490 is to be used; select "NiCd12" if the AU-BP402 is to be used. (See page 34)

Using a battery pack made by Anton Bauer

Before use, charge the battery pack using the exclusive battery charger made by Anton Bauer.

For the charging time and other details, refer to the operating instructions of the battery charger used.

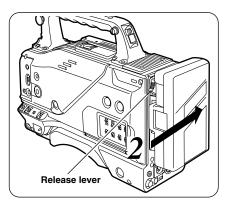
1 Attach the battery pack made by Anton Bauer.



<Reference>

A battery holder made by Anton Bauer is equipped with a power output connector for the lighting and a lighting control switch to enable a light to be easily attached. For details on the lighting systems available, contact Anton Bauer.

2 Insert the battery pack and slide it in the direction of the arrow.



<Reference>

To remove the battery pack, slide it in the opposite direction to the one in which it was attached while keeping the release lever on the battery holder pulled down all the way.

3 Set the battery type.

Select the battery type using <BATTERY> on the sub-menu screen.

Example: Select "NiCd13" if the TRIMPAC13 is to be used; select "NiCd14" if the TRIMPAC14 is to be used. (See page 34)

Using the NP-1B battery pack made by Sony

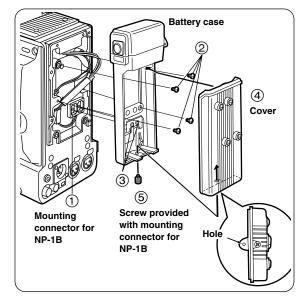
Before use, charge the battery pack using the exclusive battery charger made by Sony.

For the charging time and other details, refer to the operating instructions of the battery charger used.

1 Remove the battery holder.

Refer to step 1 on page 14.

2 Attach the battery made by Sony to the



First, remove the battery holder cover.

- 1) Attach the mounting connector for the NP-1B.
- ②Use the mounting screws to mount the battery case.
- ③Tighten the screw for the power supply contact.
- (4) Insert the top of the cover in the direction of the arrow.
- (5) Align the hole in the bottom of the cover (metal part) with the hole in the bottom of the battery case, and attach using the screw provided with mounting connector for NP-1B.

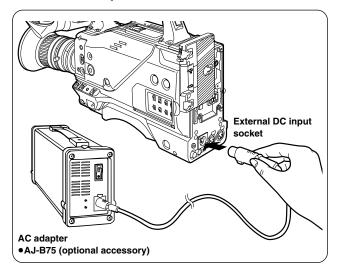
3 Set the battery type.

Select the battery type using <BATTERY> on the sub-menu screen

Select "NiCd12" if the NP-1B is to be used. (See page 34)

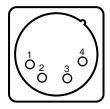
Using an AC power supply (with the AJ-B75 AC adapter)

Connect the unit's external DC input socket with the DC OUT socket on the AJ-B75 AC adapter.



- $oldsymbol{2}$ Turn on the AC adapter's power.
- 3 Set the unit's POWER switch to ON.

When an AC adapter other than the AJ-B75 is to be used, check the pin signals of the external DC input socket.



Pin No	Signal
1	GND
2, 3	_
4	+12V

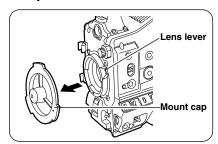
External DC input socket

<Notes>

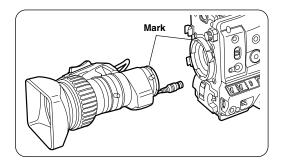
- When both a battery pack and an AC adapter have been connected, the power supplied from the AC adapter takes priority.
 It is also possible to attach/remove a battery while the AC adapter is being used.
- When an AC adapter is to be used, the unit's POWER switch must be set to ON only after the AC adapter's power has been turned on. If the power is switched on in the reverse sequence, the AC adapter's output voltage will rise slowly, possibly causing the unit to malfunction.

Attaching the lens

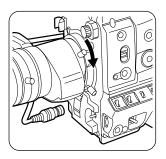
1 Raise the lens lever, and remove the mount cap.



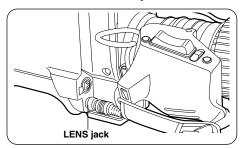
2 Fit the center mark on the lens into the center cutout on the top of the lens mount, and attach the lens.



3 Pull down the lens lever to secure the lens.



4 Push the cable into the cable clamp, and connect it to the LENS jack.



5 Proceed with the flange back adjustment for the lens.

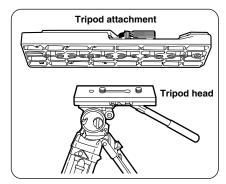
<Notes>

- For details on how to handle the lens, refer to the operating instructions of the lens.
- While the lens is removed, attach the mount cap to protect the unit.

Mounting the unit on a tripod

Use the tripod attachment to mount the unit on a tripod.

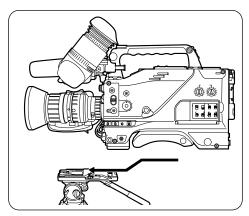
Mount the tripod attachment on the tripod.



<Note>

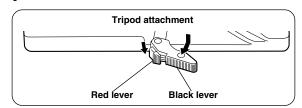
Take account of the center of gravity of the unit and that of the tripod attachment when selecting the attachment hole. Check that the diameter of the hole selected matches the diameter of the tripod head screw.

2 Mount the unit on the tripod attachment.



Slide the unit along the groove toward the front until it clicks into place.

Detaching the unit from the tripod attachment



While pushing down the red lever, move the black lever in the direction of the arrow and slide the unit toward the back to remove it

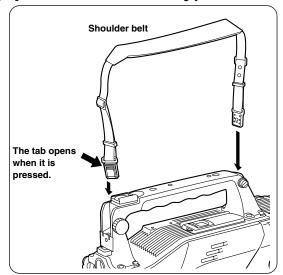
<Note>

If the pin of the tripod attachment fails to return to its original position after the unit has been detached, again move the black lever in the direction of the arrow while pushing down the red lever, and return the pin to its original position. Bear in mind that the unit cannot be attached if the pin remains in the center.

Attaching the viewfinder and microphone

For details on the attachment and adjustments of the viewfinder and microphone, refer to the operating instructions of the viewfinder.

Attaching the shoulder belt (optional accessory)



To disengage the shoulder belt, open the tabs of the attachment parts, and disengage.



<Note>

Check that the shoulder belt is attached securely.

Setting the camera ID

The camera ID is set on the <CAMERA ID> screen. Up to 12 alphanumerics, symbols and spaces can be used.

<Note>

The camera ID does not appear while the setting menu is displayed even when color bar signals are output.

Proceed with the sub-menu operation (page 30), and open the <CAMERA ID> screen.

2 Turn the JOG dial button to move the arrow (cursor) to the ID item.

- When the JOG dial button is pressed, the arrow (cursor) flashes to signal that the input mode has been established.
- 4 Keep turning the JOG dial button until the character to be set appears.

When the button is turned, the character display is switched in the following sequence:

```
Space: ☐

Letters of the alphabet: A through Z

Numbers: 0 through 9

Symbols: ', >, <, /, -
```

- 5 Press the JOG dial button to enter the character.
- Turn the JOG dial button to move the arrow (cursor) to the next position (on the right), and repeat steps 3, 4 and 5 to enter the remaining characters.
- 7 Press the MENU button to end the menu operation.

The setting menu is cleared, and the unit's current status is displayed.

To change the \downarrow back to \rightarrow , press the JOG dial button when the \downarrow is above the colon (:).

<Note>

The camera ID input above will be recorded at the same time as the color bar signals.

Setting the date and time

1 Proceed with the sub-menu operation (page 34) to open the <TIME/DATE> screen.

```
→▲ < TIME/DATE >

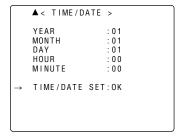
YEAR :01
MONTH :01
DAY :01
HOUR :00
MINUTE :00
TIME/DATE SET:READY
```

2 Turn the JOG dial button to select the item to be changed, and press the JOG dial button.



- 3 Turn the JOG dial button to change the setting, and then press the button to enter it.
- 4 When the setting is completed, turn the JOG dial button to select TIME/DATE SET, and press the button.

The READY display changes from ACTIVE to OK, and the clock function starts operating.



5 Press the MENU button to end the menu operation.

The setting menu is cleared, and the unit's current status is displayed.

<Note>

The seconds cannot be set. The time always starts from zero seconds.

Lens adjustments and checks

Flange back adjustment

The flange back (distance from the lens mounting surface to the image formation surface) is adjusted when a subject cannot be brought into focus precisely using either the telephoto or the wide angle positions when performing zoom operations.

Once the flange back has been adjusted, it need not be re-adjusted unless the lens is replaced. For details on the adjustment method and lens positions, refer to the operating instructions of the lens concerned.

White shading check

This unit enables the fixed data supporting three types of lens and the data supporting any desired adjustments to be used for white shading compensation. This data can be selected using LENS SHADING on the sub-menu (see page 35).

First, check that the type of lens used and the settings match. The fixed data settings are as follows:

Type A: Data for S18 x 6.7BERM4 (etc.) lenses.

Type B: Data for YH18 x 6.7KRS (etc.) lenses.

Type C: Data for S14 x 7.3BRM lens.

If the lens to be used does not correspond to any of these types, proceed to adjust the white shading described below by performing menu operations.

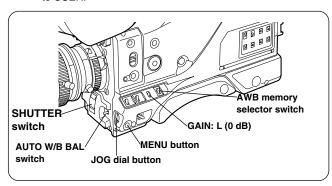
White shading adjustment

<Note>

Coloring may occur in the vertical direction near the open setting of the lens iris even when the white shading has been adjusted. This phenomenon is a characteristic inherent to lenses and optical systems, and it is not indicative of a failure.

Proceed with the camera settings for the adjustment.

- Mount the lens on the camera.
 Do not forget to attach the lens cable.
- ②Set the electronic shutter to OFF and the gain to L (0 dB)
- ③If the lens comes with an extender, disengage the extender function.
- Proceed with the menu operation (page 30) to open the submenu <LENS SHADING> screen, and set "LENS SELECT" to USER.



2 Proceed with the image settings.

- (1) Shoot a piece of paper with no color unevenness.
- ②Set the lens iris to manual, and adjust it so that a zebra pattern fills the whole screen. Check that the lens iris is between f/4 and f/11.

<Notes>

- Flicker tends to occur under fluorescent lights, mercury lamps and other such lighting conditions. Use sunlight, halogen lamps or a light source which rarely give rises to flicker.
- If there is unevenness in the lighting, the zebra pattern will no longer appear on some parts of the screen. In a case like this, adjust the lighting position, etc.
- Adjust the lighting position, etc. also when the lens iris is not between f/4 and f/11.
- The electronic shutter must be left at the OFF setting.

3 Adjust the white balance and black balance.

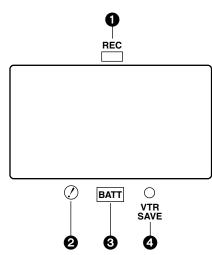
- ①Set the WHITE BAL selector switch to A or B, and use the AUTO W/B BAL switch to execute the automatic white balance adjustment (AWB).
- ②Use the AUTO W/B BAL switch to execute the automatic black balance adjustment (ABB).
- ③Once again, use the AUTO W/B BAL switch to execute the automatic white balance adjustment (AWB).

Repeat the operation in step 2-2.

5 Proceed with the white shading adjustment.

- ①Proceed with the menu operation (page 30), and open the sub-menu LENS SHADING screen.
- ②Turn the JOG dial button to align the cursor with LENS SELECT, and press the button. Then turn the JOG dial button further to align the cursor with USER, and press the button to select this item.
- ③Use the JOG dial button to align the cursor with SHADING (USER), and select this item.
 - ACTIVE appears on the screen to indicate that the white shading is being automatically adjusted. The adjustment is completed when the ACTIVE display is cleared and OK appears.
- (4) Press the MENU button to close the menu screen.
- 6 If the lens comes with an extender, engage the extender function, and repeat steps 2 through 5.

Viewfinder lamp displays



The displays shown in the example are those of the AJ-VF10. (For details on the viewfinder, refer to the operating instructions of the viewfinder available as an optional accessory.)

• REC (record) lamp

This lights up red during recording. It flashes when an error has occurred. For further details, refer to "Warning system" (page 38).

② (irregular operation status warning) lamp

This lights up when the unit is placed in an irregular operation status for any of the items set to ON in the sub-menu <!LED>. For details on selecting the items subject to the lamp display, refer to sub-menu <!LED> (see page 37).

BATT (battery) lamp

This starts flashing several minutes before the battery voltage drops to the level where the battery can no longer be used, and it remains lighted when the battery can no longer be used. To prevent an interruption to operation, replace the battery before the battery becomes completely discharged. For further details, refer to "Warning system" (page 38).

4 VTR SAVE (VTR power-saving) lamp

This lights up when the VTR SAVE/STBY switch is set to SAVE. It goes off during recording.

<Note>

After the period set for the pause timer is exceeded during Rec Pause, or after 1 minute has passed during Pause (Still), the unit will automatically switch to SAVE mode and the lamp will light, regardless of the VTR SAVE/STBY switch position.

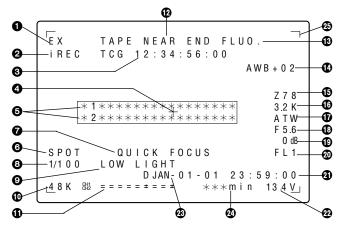
Viewfinder screen status displays

In addition to the images, messages indicating the unit's settings and the operation mode appear on the viewfinder screen.

Also displayed are the center marker and safety zone markers.

At the top, bottom and right edges of the screen are the items which have been set to ON using the sub-menu <MARKER/ZEBRA>, <VF DISPLAY 1/2> and <VF DISPLAY 2/2> screens or the switches relating to the viewfinder displays. When a setting has been changed or an adjustment is made, a message informing the user of the setting details, adjustment transition status and adjustment result is displayed for about 3 seconds.

For further details, refer to the items concerned on the sub-menu <MARKER/ZEBRA>, <VF DISPLAY 1/2>, <VF DISPLAY 2/2>, <!LED>, <CAMERA ID> and <TIME DATE> screens.



Status displays on viewfinder screen when MODE CHECK switch is ON (normal)

```
EX
      TAPE NEAR END FLUO.
      TCG 12:34:56.00 NDF
  SCENE
          F1: FLU0.
      : A 3 . 6 K +
 WHITE
       : MANUAL
                 A.IRIS:BACK
 KNEE
 GAIN
       : 0 d B
                 GAMMA : NORMAL
 FILTER: 1
                 COLOR
                       : + 1 0
 SHUT
       \cdot 0 F F
                 SKIN
                        : 0 F F
           (1)
***min 13.4 V
```

Status displays on viewfinder screen when MODE CHECK switch is ON (FULL AUTO)

```
EX TAPE NEAR END FULL

TCG 12:34:56.00 NDF

SCENE F1:FLUO.

FULL AUTO +
GAMMA : NORMAL
SKIN : OFF

DJAN-01-01 23:59:00

48K 82 ===== + ***min 13.4 V
```

Display item	What is displayed	Status causing the display to appear				
Extender display	EX	Displayed when the lens extender is being used.				
② INTERVAL REC status display	iREC	Indicates the interval recording mode. For further details, refer to "INTERVAL REC function" (page 28).				
③ Time code display	TCG 12:59:59:29 TCR 12:59:59:29 UBG AB:CD:EF:00 UBR AB:CD:EF:00 CNT 01:59:59	Indicates the TCG (time code generator) value. Indicates the TCR (time code reader) value. Indicates the UBG (user's bit generator) value. Indicates the UBR (user's bit reader) value. Indicates the COUNTER (counter) value.				
4 Center marker	+	Displayed when ON is selected as the CENTER MARK (see page 35) setting. It indicates the center of the viewfinder screen.				
(ANT) ARR are stices	AWB Ach *.*K AWB Ach *.*K UNDER AWB Ach *.*K OVER AWB Bch *.*K AWB Bch *.*K UNDER AWB Bch *.*K OVER AWB PRE *.*K AUTO KNEE ON AUTO KNEE OFF GAIN **dB FILTER * SHUTTER OFF SHUTTER 1/**** IRIS MODE **** FULL AUTO ON FULL AUTO OFF SCENE FILE USER SCENE FILE 1 SCENE FILE 2 SCENE FILE 3 SCENE FILE 4 SCENE FILE STD	Displayed when the AWB has been attained for channel A. Displayed when the AWB has been attained for channel A, and the color temperature is lower than the display range. Displayed when the AWB has been attained for channel A, and the color temperature is higher than the display range. Displayed when the AWB has been attained for channel B. Displayed when the AWB has been attained for channel B, and the color temperature is lower than the display range. Displayed when the AWB has been attained for channel B, and the color temperature is higher than the display range. Displayed when AWB has been switched to PRE. Displayed when AWB has been switched to PRE. Displayed when AUTO KNEE has been changed from OFF to ON. Displayed when the gain has been switched. Displayed when the filter has been switched. Displayed when the shutter has been set to OFF. Displayed when the IRIS MODE switch setting has been changed. Displayed when FULL AUTO has been changed from OFF to ON. Displayed when FULL AUTO has been changed from OFF. Displayed when FULL AUTO has been changed from ON to OFF.				
(AWB, ABB operation displays)	AWB ACTIVE AWB OK *.*K AWB OK *.*K UNDER AWB OK *.*K OVER AWB NG AWB PRE ATW MODE ABB ACTIVE ABB OK ABB NG	Displayed while the AWB operation is in progress. Displayed when AWB is completed error-free. Displayed when AWB is completed error-free, and the color temperature is outside the display range (under **K). Displayed when AWB is completed error-free, and the color temperature is outside the display range (over **K). Displayed when AWB is completed with an error. Displayed when AWB cannot be performed because AWB is set to PRE. Displayed when ATW (full time auto white balance) is in progress. Displayed while the ABB operation is in progress. Displayed when ABB is completed error-free. Displayed when ABB is completed with an error.				
2nd line message display (error result message displayed after AWB or ABB has been performed)	color temp LOW color temp HIGH LEVEL OVER LOW LIGHT UNSTABLE CONDITION TIME OVER	Warns that the color temperature is too low during the AWB operation. Warns that the color temperature is too high during the AWB operation. Warns that the brightness is too high during the AWB operation. Warns that the brightness is too low during the AWB operation. Warns that the screen is not stable during the AWB or ABB operation. Warns that the AWB or ABB processing could not be completed within the allotted time.				
(i) IRIS MODE switch status display	SPOT BACK	Displayed when the IRIS MODE switch is at the SPOT.L position. Displayed when the IRIS MODE switch is at the BACK.L position.				
QUICK FOCUS display	QUICK FOCUS	Displayed when QUICK FOCUS is ON.				

Display item	What is displayed	Status causing the display to appear
3 Shutter speed	1/**.* 1/100 - 1/2000 SUPER V	Displayed when the shutter speed has been set to SYNCHRO SCAN. Displayed when a fixed shutter speed has been set. Displayed when SUPER V (high vertical resolution mode) has been set.
LOW LIGHT warning display	LOW LIGHT	Displayed when the brightness has been reduced.
AUDIO sampling frequency display	48k 32k	Indicates that a frequency of 48 kHz has been selected. Indicates that a frequency of 32 kHz has been selected. Note> With a 1394 input, the input status is displayed.
Audio level meter display	=======================================	Indicates the audio levels of CH1 and CH2 (see page 27).
VTR warning display/voltage warning display	REC WARNING SLACK E-** HUMID SERVO RF TAPE NEAR END TAPE END BATT NEAR END BATT END MP TAPE BACKUP BATT EMPTY	Indicates the occurrence of an error during recording. Indicates the occurrence of an error caused by the mechanism. Depending on the type of error, the power may be cut off automatically. (*1) Indicates that condensation has formed. Servo lock is not engaged during recording or playback. The signal level from the tape has dropped. The tape is nearing its end (there are about 2 minutes left). The tape has stopped at the tape end. The battery is nearly flat. The tape has stopped because the battery is flat. An MP tape has been loaded. The tape is automatically ejected. It is time to replace the backup battery.
® FULL AUTO/SCENE FILE display	FULL Filename which has been set	Displayed when the FULL AUTO switch has been set to ON. Indicates the filenames (8 characters) set for the scene files.
AWB color temperature fine adjustment amount display	AWB+**	The adjustment amount is displayed when ON has been selected as the "COLOR TEMP" setting (see page 32) and the color temperature has been adjusted finely. It is not displayed when OFF is selected or only ATW has been set.
① Zoom display	Z00 - Z99	Indicates the zoom amount. However, most 1/2-inch size lenses have no zoom position return. In such a case, this item is not displayed even if ON has been selected as the display setting.
AWB color temperature display	*.*K	Indicates the color temperature.
To ATW, AWB channel display	Ach Bch PRE ATW	The WHITE BAL switch has been set to channel A. The WHITE BAL switch has been set to channel B. The WHITE BAL switch has been set to PRE. The full time auto white balance has been set.
♠ F value display	NC OPEN F2.0 - F16 CLOSE	Displayed when the lens cable has not been connected. Displayed when the lens iris has been opened. Indicates the lens iris value. Displayed when the lens iris has been closed. <note> This item appears when using a lens equipped with a function that displays the aperture value.</note>
⊕ Gain display	0 - 36dB	Displays the current gain value.
Filter display	FL1 - FL4 FL-	Displays the filter position. Displayed when filter has not been set to the proper position.

^{*1:} For details on the codes displayed, refer to "Error codes" (page 40).

Display item	What is displayed	Status causing the display to appear			
Calendar/clock display	01-01-01 00:00:00	The 24-hour system is used for the clock display. (Month-day-year and hours-minutes-seconds displayed)			
Voltage display	**.*V	The input voltage is displayed.			
Calendar/clock status switching display	D	"D" is displayed only when a VF DISPLAY setting has been selected. This is to enable the user to differentiate between the screen displays when "TIME+DATE" (see page 35) has been selected as the TIME/DATE setting on <vf 2="" display=""> and when "REC" has been selected as the TIME STAMP setting (see page 34) on <vtr option="">.</vtr></vf>			
Remaining tape/recording inhibit display	***min ©END ©INH	Normally, "***min" is lighted, and it flashes when the tape is nearly at its end. When the tape reaches the end, "@END" lights. When recording is inhibited, "@INH" lights.			
	IND+003	This lights during an INDEX search. A positive number denotes an index count in the forward direction, and a negative number denotes an index count in the reverse direction. With each detection, the value is decremented to zero, and when the tape stops, the remaining tape display is restored.			
Safety zone markers	Corner: 3 types Box: 3 types 16:9 full box: 3 types	The safety zone markers selected for 01 through 09 in SAFETY ZONE are displayed. For further details, refer to the table for "SAFETY ZONE" (page 35) on the <marker zebra=""> sub-menu.</marker>			
② Cause of !LED lighting display (this item appears only during a MODE check)	SUPER-V EXT ON FIL No1 FIL wo No1 FIL NG SHUT wo 1/100 SHUT ON WHITE ATW WHITE PRE GAIN wo 0dB	Displayed when SUPER-V is set to ON. Displayed when EXTENDER is set to ON. Displayed when FILTER is set to 1. Displayed when FILTER is set to a number other than 1. Displayed when FILTER is set to NG. Displayed when SHUTTER is set to a speed other than 1/100. Displayed when SHUTTER is set to ON. Displayed when ATW has been selected for AWB. Displayed when the AWB switch has been set to PRE. Displayed when a gain value other than 0 dB has been selected.			

Selecting the viewfinder screen display

	Status displayed when the corresponding status is established	Display/non- display selected by MARKER/ZEBRA	Display/non- display selected by VF DISPLAY 1/2 or 2/2	Displayed and can be cleared	Displayed during playback
Extender display	0	-	0	0	-
❷ INTERVAL REC status display	0	-	_	_	-
Time code display	-	-	0	0	0
Center marker	-	0	_	0	_
6 Message display	0	-	-	-	-
	0	-	0	0	_
QUICK FOCUS display	0	-	-	-	_
3 Shutter speed display	0	-	0	0	-
LOW LIGHT warning display	0	-	0	0	-
AUDIO sampling frequency display	-	-	0	0	0
Audio level meter display	-	-	0	0	0
VTR warning display/voltage warning display	0	-	-	-	0
⊕ FULL AUTO/SCENE FILE display	0	-	0	0	_
AWB color temperature fine adjustment amount display	0	_	0	0	_
	-	-	0	0	_
AWB color temperature display	-	-	0	0	-
ATW, AWB channel display	-	-	0	0	-
	-	-	0	0	-
Gain display	-	_	0	0	-
	-	-	0	0	-
Calendar/clock display	-	-	0	0	-
Voltage display	-	-	0	0	-
	0	-	_	_	-
Remaining tape/recording inhibit display	-	-	0	0	-
Safety zone markers	-	0	_	0	-

White balance and black balance adjustment

Better pictures will be produced by performing the white balance and black balance adjustments in the sequence of AWB (white balance adjustment) \rightarrow ABB (black balance adjustment) \rightarrow AWB. Normally, there is no need to re-adjust the black balance even when the power is turned on again.

<Notes>

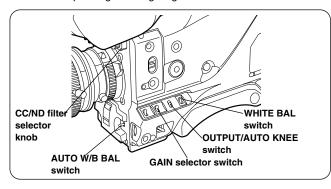
Even though the brightness under artificial lighting and especially under fluorescent lights and mercury lamps may appear to be constant, the strengths of the red, green and blue colors change in synchronization with the power line frequency. Particularly in areas where this frequency is 50 Hz, the unit's vertical sync frequency (approx. 60 Hz) and the lighting frequency (50 Hz) will be subject to mutual interference, causing the color phase to change as time passes and flicker to be generated. This makes it impossible to attain the white balance properly. It is recommended that the white balance be attained using the settings shown in the table below.

Power line frequency	Shutter speed		
50Hz	1/100		
60Hz	OFF		

Automatic white balance adjustment

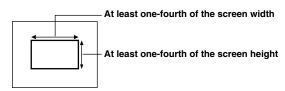
1 Set the switches to the positions shown in the figure.

- 1) Set the WHITE BAL switch to A or B.
- ②Set the OUTPUT/AUTO KNEE switch to CAM.
- ③Normally, set the GAIN selector switch to 0 dB. If it is too dark at this setting, set the gain to a more appropriate level.
- Set the CC/ND filter selector knob to the position corresponding to the lighting conditions.



2 Erect a white pattern at a location subject to the same conditions as the light source illuminating the subject, zoom in, and fill the screen with white.

Something white (a piece of white fabric or a white wall) near the subject can be used instead. The required size of the white object is shown in the figure below.



<Note>

Do not allow any high-brightness spots inside the screen.

3 Adjust the lens iris.

4 Push the AUTO W/B BAL switch to AWB and release it.

The switch returns to the center, and the white balance is automatically adjusted.

5 A message corresponding to the AWB execution status appears inside the viewfinder.

For details, refer to the viewfinder displays (page 16).

<Notes:

If the black balance adjustment was not completed without an error, an error message appears inside the viewfinder. Try performing the adjustment again.

If the error message persists even after another attempt at adjustment, consult your dealer or a Panasonic Service Center representative.

<Reference>

If there is no time to adjust the white balance, set the WHITE BAL switch to PRST. The white balance will be attained for the filter according to the FILTER control (outer) setting position.

The automatic tracking white balance operation is performed when ATW has been set ahead of time for the A, B and PRE positions of the WHITE BAL switch: this comes in handy at such a time.

Automatic black balance adjustment

The black balance must be adjusted in the following cases.

- When the unit is to be used for the first time
- When the unit is to be used after it has not been used for a prolonged period
- When the unit is to be used where the ambient temperature has changed significantly
- When the gain selection value has been changed
- When the MASTER GAMMA setting has been changed

1 Push the AUTO W/B BAL switch to ABB and release it.

The switch returns to the center, the iris is automatically set to the shielded mode, and the adjustment is performed.

2 A message corresponding to the ABB execution status appears inside the viewfinder.

For details, refer to the viewfinder displays (page 16).

<Notes>

- If the black balance adjustment was not completed without an error, an error message appears inside the viewfinder. Try performing the adjustment again.
- If the error message persists even after another attempt at adjustment, consult your dealer or a Panasonic Service Center representative.
- The gain switching circuit is automatically switched while the black balance is being adjusted. Although flicker or noise may appear on the viewfinder screen, this is not indicative of malfunctioning.

Electronic shutter settings

Concerning the shutter modes

Shutter modes and shutter speeds that can be set

Mode	Shutter speed	Applications
Standard	1/100, 1/120, 1/250, 1/500, 1/1000 and 1/2000 (sec.)	For shooting fast-moving subjects clearly
SYNCHRO SCAN	Within the 60.3 Hz to 250.0 Hz range	For shooting monitor screens with minimal striping in the horizontal direction
SUPER V		For improving the vertical resolution

<Notes>

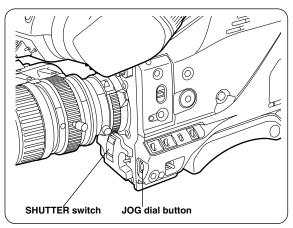
- Whatever mode is set for the electronic shutter, the faster the shutter speed, the lower the camera's sensitivity.
- In the automatic iris mode, the faster the shutter speed, the more the iris opens and the shallower the depth of focus.
- When SUPER V has been selected, the camera's sensitivity will be halved.

Setting the shutter mode and speed

- In the shutter speed and standard mode, the shutter speed is set by selecting the SHUTTER switch position.
- In the SYNCHRO SCAN mode, the shutter speed can be easily changed by operating the JOG dial button.

I Push the SHUTTER switch from ON to SEL.

The current shutter setting appears in the area of the viewfinder screen where messages notifying the user of changes made to settings appear.



2 Press the SHUTTER switch to SEL again, and repeat until the desired mode or speed is displayed.

When all the modes and speeds are displayed, the display changes in the following sequence.

Standard mode ↓ 1/100 → 1/120 → 1/250 → 1/500 → 1/1000 → 1/2000 SUPER V mode SYNCHRO SCAN mode

<Note>

The SUPER V mode is not selected as the factory setting. For this reason, it is not displayed at the factory setting.

To select SUPER V mode, set the "SUPER V" of the sub-menu <SW MODE> screen to ON. (See page 37)

Setting the synchro scanning mode

1 Push the SHUTTER switch from ON to SEL and set to SYNCHRO SCAN.

The setting can be continuously selected within the 60.3 Hz to 250.0 Hz range by rotating the JOG dial button up or down.

<Note>

After the JOG dial button is rotated up or down while being pressed, the setting will continue to change as long as the button is pressed (even without the button being rotated).

Time data settings

When both the user's bit and time code are to be used, the user's bit is set first. The time code can be set from 00:00:00:00 to 23:59:59:29.

Setting the user's bit

By setting the user's bit, memos (date, time) and other information consisting of up to 8 hexadecimal digits can be recorded on the sub-code track.

- 1 Set the COUNTER/TC/UB switch to UB.
- 2 Set the TCG switch to SET.

"UBG **:**:**:**" now appears in the viewfinder. Select a number for the flashing part by rotating the JOG dial button, and press the JOG dial button to enter it. When the number is entered, the flashing moves to the next characters on the right so that another number can be input in the same way until the user's bit is set.

- 3 Set the TCG switch to F-RUN or R-RUN.
- 4 Select the "UB MODE" on the sub-menu <VTR FUNCTION> screen. (See page 34)

Concerning the user's bit memory function

The user's bit settings (except for the actual time) are automatically stored in the memory and retained even after the power has been turned off.

<Notes>

- When DATE is selected for "UB MODE" on the sub-menu <VTR FUNCTION>, the year/month/day on the TIME/DATE screen will function in real time.
- When TIME is selected for "UB MODE" on the sub-menu <VTR FUNCTION>, the hours/minutes/seconds on the TIME/DATE screen will function in real time.

Setting the time code

- 1 Set the COUNTER/TC/UB switch to TC.
- 2 Set the TCG switch to SET.

"TCG **:**:**:**:*" now appears in the viewfinder. Set the time code by performing the same operations used to set the user's bit.

3 Set TC MODE to DF or NDF on the submenu <VTR FUNCTION> screen.

Set this to DF to advance the time code in the drop frame mode or NDF to advance it in the non-drop frame mode.

4 Set the TCG switch.

Set this to F-RUN to advance the time code in the free-run mode or R-RUN to advance it in the rec-run mode.

<Note>

The backup accuracy of the time code will be out by several frames when the POWER switch has been set from ON to OFF and then back to ON again.

Scene files

Scene file function

The values of the camera setup tailored to different shooting conditions can be stored in the unit's memory in the form of files. During shooting, the file required can be called instantly simply by turning the SCENE FILE dial.

The following six files were stored in the memory before the unit was shipped from the factory.

USER: FACTORY (user file)

F1: FLUO. (fluorescent light file)

This file's settings establish the mode which is best suited to indoor shooting where the characteristics of fluorescent lights are taken into consideration.

F2 : SPARKLNG (sparkling file)

This file's settings establish the mode which is best suited to wedding receptions, etc. where the subject is to be livened up.

F3 : COOL (cool file)

This file's settings establish the mode which is best suited to outdoor shooting to produce images with an overall bluish tinge.

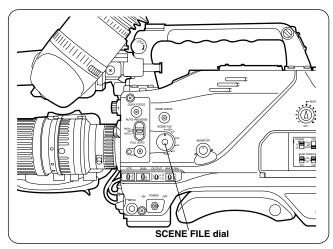
F4 : RETRO (retro file)

This file's settings establish the mode for producing images with an overall reddish tinge to create the atmosphere of bygone days.

STD: FACTORY (standard file)

Scene file setting method

The scene file settings are changed using the SCENE FILE dial and the sub-menu <SCENE FILE> screen.



Editing scene filenames

(example: USER file)

- 1 Rotate the SCENE FILE dial to select the scene file whose name is to be changed.
- 2 Proceed with the menu operations (page 30) to open the <SCENE FILE> screen.
- 3 Rotate the JOG dial button to move"→" to the NAME EDIT item, and press the JOG dial button.

```
A < SCENE FILE >

→ NAME EDIT USER: FACTORY

FILE NAME USER: FACTORY

F1: FLUO.

F2: SPARKLNG

F3: COOL

F4: RETRO

STD: FACTORY

WRITE(USER): READY

INIT (USER): READY
```

- 4 Rotate the JOG dial button to move "↓" to a point above the character of the filename to be changed.
- 5 When the JOG dial button is pressed, the "↓" position flashes, and the input mode is established.

```
A < SCENE FILE >

→ NAME EDIT USER: FACTORY

FILE NAME USER: FACTORY

F1: FLUO.

F2: SPARKLNG

F3: COOL

F4: RETRO

STD: FACTORY

WRITE(USER): READY

INIT (USER): READY
```

6 Rotate the JOG dial button until the next character to be changed appears.

When the button is turned, the character display is switched in the following sequence:

```
Space: ☐

Letters of the alphabet: A through Z

Numbers: 0 through 9

Symbols: ', >, <, /, -
```

- 7 Press the JOG dial button to enter the character.
- Rotate the JOG dial button to move the arrow (cursor) to the next position (on the right), and repeat steps 5, 6 and 7 to enter the remaining characters. (Not more than 8 characters may be used for a filename.)

To change the \downarrow back to \rightarrow , press the JOG dial button when the \downarrow is above the colon (:).

Scene files

9 Rotate the JOG dial button to move "→" to the WRITE item.

$10\,$ When the JOG dial button is pressed, the following message is displayed.

11 Rotate the JOG dial button to select YES, and press the JOG dial button.

When the data has been written (saved), the following message is displayed.

```
A < SCENE FILE >

NAME EDIT USER:TARO

FILE NAME USER:TARO
F1:FLUO.
F2:SPARKLNG
F3:COOL
F4:RETRO
STD:FACTORY

→ WRITE(USER):OK
INIT (USER):READY
```

<Note>

Repeat step 11 if the NG display appears.

12 Press the MENU button to exit the menu operation.

The setting menu is cleared, and the displays showing the unit's current statuses appear on the viewfinder screen.

Returning a scene filename to its default

Rotate the JOG dial button to move " \rightarrow " to the INIT item, and perform steps 10 and 11 of "Editing scene filenames" in the previous section.

The scene filenames are returned to their defaults (factory settings).

The scene file setting data are also returned to their default values.

How to use file select

Up to four menu setting parameters other than scene files can be stored in the memory. These parameter are MAIN 1/2 and MAIN 2/2 menu items. For further details, refer to "List of file settings" (page 25).

Files are written and read on the sub-menu <DATA READ/WRITE> screen (page 33). When the unit was shipped from the factory, the default values (factory settings) were stored in four files.

Proceed with the menu operations (page 30) to display the submenu <DATA READ/WRITE> screen.

1 Operate the JOG dial button to select 1, 2, 3 or 4 as the FILE SELECT number.

```
▲ < DATA READ/WRITE >

→ FILE SELECT :1

FILE READ (1):READY
FILE WRITE(1):READY
READ FACTORY :READY
```

2 Proceed with writing setting statuses in a file or calling them from a file.

- ① To write the unit's setting statuses in the file with the selected number when the file is selected, execute FILE WRITE (*) (where the number of the selected file is input into "*").
- ② To call the unit's setting statuses from the file with the selected number, execute FILE READ (*).
- ③ To return to the default statuses, execute READ FACTORY.

For details on this operation, refer to the scene file settings.

Scene files

List of scene file settings

The scene file factory settings are listed in the tables below. Use them as a reference when making changes to a USER file.

Setting item	F1	F2	F3	F4	STD	USER	Remarks
<scene file="" name=""></scene>	FLUO.	SPARKLNG	COOL	RETRO	FACTORY	FACTORY	
<iris gamma=""></iris>							
A. IRIS LEVEL	0	0	0	0	0	0	
A. IRIS PEAK/AVE	PEAK, 0	PEAK, 0	PEAK, 0	PEAK, 0	PEAK, 0	PEAK, 0	
A. IRIS SPEED	0	0	0	0	0	0	
BLACK STR/PRESS	NORM	NORM	NORM	NORM	NORM	NORM	
MASTER GAMMA	0	0	0	-10	0	0	
<color skin="" tone=""></color>							
PRE COLOR TEMP	0	0	0	0	0	0	
Ach	0	0	+10	-20	0	0	
Bch	0	0	+10	-20	0	0	
SKIN TONE DTL	OFF	OFF	OFF	OFF	OFF	OFF	
SKIN TONE RANGE	NORM	NORM	NORM	NORM	NORM	NORM	
<process></process>							
H DETAIL	0	+5	+5	- 5	0	0	
V DETAIL	0	+5	+5	-4	0	0	
DTL CORING	0	+5	+5	0	0	0	
H. DTL FREQ.	3 MHz	3 MHz	3 MHz	3 MHz	3 MHz	3 MHz	
MATRIX	В	A	Α	Α	Α	Α	
CHROMA LEVEL	+2	+2	0	0	0	0	
CHROMA PHASE	0	0	0	0	0	0	
MASTER PED	0	0	0	0	0	0	
KNEE POINT	88%	88%	88%	88%	88%	88%	

List of file settings

The items which can be selected by the file select function are listed in the tables below.

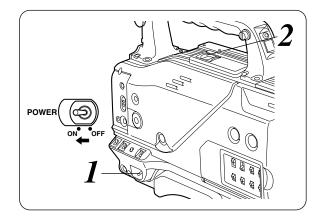
The factory settings have been set for all the default values.

Changes can be made to the settings in file numbers 1 to 4 to suit the prevailing application in mind.

Setting item	1 to 4	Remarks	Setting item	1 to 4	Remarks	Setting item	1 to 4	Remarks
<sw mode=""> LOW GAIN MID GAIN HIGH GAIN ATW SUPER V QUICK FOCUS FULL AUTO SCENE FILE</sw>	0 dB 9 dB 18 dB OFF OFF ENABLE ENABLE ENABLE		<pre><battery> BATTERY SELECT TYPE A NEAR END TYPE A END TYPE B NEAR END TYPE B END </battery></pre> <pre><mic audio=""> FRONT MIC POWER FRONT MIC</mic></pre>	NiCd14 11.6 V 11.2 V 12.7 V 12.4 V ON –50 dB		<vf 1="" 2="" display=""> FILTER GAIN WHITE BAL COLOR TEMP IRIS (F Number) ZOOM TCG LEVEL METER</vf>	ON ON ON ON ON TCG/TCR CH1+CH2	
<video in="" out=""> VIDEO OUT MENU VIDEO OUT SEL INPUT SELECT REMOTE SELECT SET UP</video>	ON ENC CAMERA LOCAL 0 %		REAR MIC CH1 REAR MIC CH2 MIC LOWCUT CH1 MIC LOWCUT CH2 LINE CH1 LINE CH2	-60 dB -60 dB ON ON -6 dB -6 dB		TAPE REMAIN BATTERY <vf 2="" display=""> SHUTTER SPEED IRIS (SPOT, BACK) AUTO/SCENE NAME</vf>	ON ON ON ON	
<vtr function=""> TC MODE UB MODE FIRST REC TC</vtr>	DF USER REGEN		<marker zebra=""> SAFETY ZONE CENTER MARK ZEBRA1 DETECT</marker>	06 ON 70%		LOW LIGHT TIME/DATE EXTENDER AUDIO SAMPLING	ON OFF ON ON	
BACK TALLY FF/REW SPEED AUDIO SAMPLING	ON x100 48 K		ZEBRA2 DETECT ZEBRA2 VF DTL	85% SPOT 1		LED GAIN WHITE	W/O 0 dB OFF	
<pre><vtr option=""> TIME STAMP REC TIME INTERVAL TIME PAUSE TIMER</vtr></pre>	NO-REC 00m05s 00h0m010s 10 min					SHUTTER FILTER EXTENDER SUPER V	ON NG ON OFF	

Normal recording

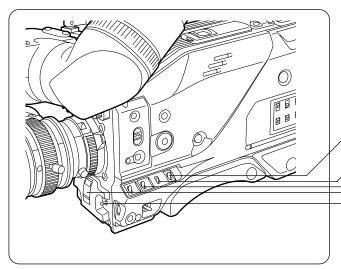
Recording methods



Set the POWER switch to ON.

- 2 Press the EJECT button to open the cassette compartment, and insert the cassette tape.
 - Before proceeding with the recording, check that the cassette tab has been set to the REC position.
 - This unit is used exclusively for standard cassettes.





3 Set the camera unit's switches as follows.

Use the white balance selector switch to select the desired white balance mode.

Set the OUTPUT selector switch to CAM.

Set the GAIN selector switch to the setting that supports the subject brightness.

Select the desired shutter speed as required. (Normally, the shutter is used at the OFF setting.)

—When the white balance selector switch is set to A or B, adjust the white balance.

- For details on the above switches, refer to "Parts and their functions" (pages 6-8).
- 4 Point the camera at the subject, and adjust the lens iris, focus and zoom.
- 5 Press the VTR START/STOP button to start the recording.
- 6 Press the VTR START/STOP button to stop the recording.

Scene-to-scene continuity

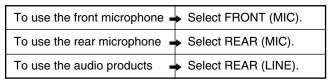
Scene-to-scene continuity is possible after the tape has been allowed to run or after the cassette has been ejected or when ensuring continuity on a tape which has been recorded only in part.

- While monitoring the viewfinder screen, press the PLAY/PAUSE button to play back the tape.
- 2 At the place on the tape where continuity is to be maintained, press the PLAY/ PAUSE (or STOP) button again to stop the tape.
- 3 Press the lens RET button. It takes about two seconds to complete the preparations for the scene-to-scene continuity.
- 4 Press the VTR START button or lens VTR button to start the recording.

Audio recording

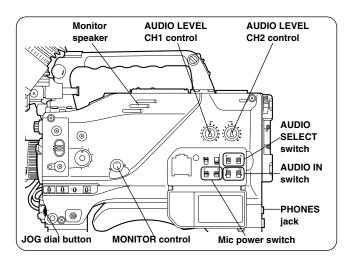
Selecting the audio input signals

1 Select the desired input signals using the AUDIO IN switch.



<Note>

- When the front microphone has been selected, select ON as the <FRONT MIC POWER> setting for the MIC/AUDIO sub-menu item if the phantom mic (+48V) needs to be supported. (See page 35)
- When the exterior microphone is selected and phantom mic (+48V) needs to be supported, set the mic power switch to ON.

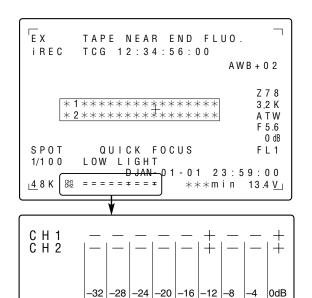


Adjusting the audio recording level

When the AUTO SELECT CH1/CH2 selector switch is set to AUTO, the input levels of the CH1 and CH2 sound are automatically adjusted.

To adjust the input levels of the CH1 and CH2 sound manually, proceed as follows

- 1 Set the AUTO SELECT CH1/CH2 selector switch to MAN.
- While monitoring the audio level meter inside the viewfinder, adjust the AUDIO LEVEL CH1 and CH2 controls in such a way that the maximum input level does not exceed "----+--+."



Monitoring the sound during recording

The audio input signals can be monitored through the monitor speaker or earphone. When the PHONES jack is used, no sound will be heard through the monitor speaker.

The volume of the monitored sound can be adjusted using the MONITOR control.

<Note>

Howl may be caused if the volume of the audio monitor speaker is too high. In a case like this, rotate the audio monitor level control to a lower level which does not give rise to howl.

Playback (checking what has been recorded)

When the PLAY/PAUSE button is pressed, the playback images can be viewed in black and white on the viewfinder screen. At the same time, color playback images can be monitored from the VIDEO OUT connector.

Rec review

When recording is temporarily stopped and the RET button on the lens is pressed, the last two seconds of the recording on the tape is automatically rewound, and the playback images for those seconds appear in the viewfinder. These functions makes it possible to check whether the recording has been performed as intended.

After the images have been played back, the recording start standby status is restored.

If the RET button is held down, up to 10 seconds on the tape can be rewound and played back.

<Notes>

- The rec review function cannot be used unless the recording is at least one second long.
- During the rec review operation, the rec review images are output to not only the viewfinder but the video output connectors (VIDEO OUT connector, S-VIDEO connector) as well. Bear in mind that the rec review images will be recorded on a backup VTR if a back VTR has been connected and backup images are being recorded.

Other functions

Still-picture playback

When the PLAY button is pressed during playback, the PLAY lamp flashes, the still-picture mode is established, and still pictures can be played back

If the PLAY button is pressed again, normal playback is resumed.

INTERVAL REC (intermittent recording) function

This unit is capable of simple interval shooting (intermittent recording). This function is very useful for shooting programs with nature themes and art programs.

The INTERVAL REC function settings are selected on the submenu VTR OPTION screen.

- INTERVAL REC:
- This sets the INTERVAL REC function ON, OFF or ONE SHOT.
- REC TIME:
- This sets the recording time (1 cut) for interval shooting.
- INTERVAL TIME:

This sets the rec pause time for interval shooting.

When the items above are set, the INTERVAL REC mode is established, and "i" starts flashing in the viewfinder.

When the VTR START button is pressed, interval shooting starts, and the flashing "i" changes to a lighted "i REC."

When the first interval shooting is completed and the rec pause mode is established, "i REC" which had remained lighted now starts flashing in the viewfinder.

When "I REC" is set, the POWER/WARNING LED flashes in green.

<Note>

To release the INTERVAL REC mode, press the VTR START button during recording or press the STOP button during Rec Pause.

Variable speed (FF/REW) playback

- When the FF (fast forward) or REW (rewind) button is pressed during playback, playback is performed at 4X normal speed in the forward or reverse direction. When it is pressed again, playback is performed at 8X normal speed in the forward or reverse direction.
- By pressing the button again, it is possible to switch playback from 4X to 8X normal speed or vice versa.

INDEX SEARCH mode

Index areas can be searched in this mode.

- With the unit in the stop mode, press the REW or FF button while holding down the mode check button.
- During the INDEX SEARCH operation, a display such as "IND + 001" appears at the remaining tape display position in the viewfinder. "+" indicates the forward direction and "-" denotes the reverse direction while the number indicates how many times the index areas are to be detected before the operation stops.
- The index area is searched in the forward or reverse direction for the number of times that corresponds to the number of times the FF or REW button was pressed.

Example: Press the REW button 3 times.

→The third index area back from the stop area is searched. (Viewfinder display: IND –003)

Press the FF button twice.

- →The second index area ahead from the stop area is searched. (Viewfinder display: IND +002)
- •To stop index search at any time, press the STOP button. Operation stops at the tape position where the button was pressed.

<Note>

The maximum INDEX SEARCH number is -127 in the reverse direction and +128 in the forward direction.

Using the unit with external components

Connection to a video component with a DV connector

The unit can be used as a player or recorder by connecting it to a video component equipped with a DV connector using a DV cable. In either case, refer to the figure below for the connections.

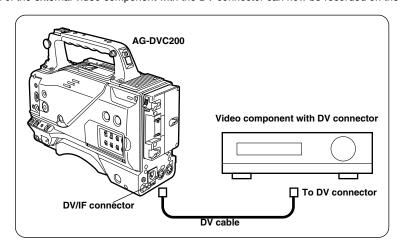
Using the unit as a player

Select 1394 as the REMOTE SELECT setting on the sub-menu VIDEO IN/OUT screen. (See page 34) The unit can now be controlled from the external video component with the DV connector.

Using the unit as a recorder

Select 1394 as the INPUT SELECT setting on the sub-menu VIDEO IN/OUT screen. (See page 34)

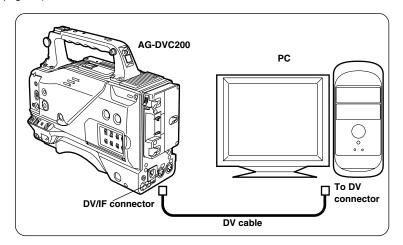
The pictures and sound of the external video component with the DV connector can now be recorded on the unit.



Connection to a PC capable of non-linear editing

By connecting the unit to a PC capable of non-linear editing using a DV cable, the unit can be controlled from the PC and pictures and sound can be input from or output to the PC.

Select 1394 as both the REMOTE SELECT and INPUT SELECT settings on the sub-menu VIDEO IN/OUT screen. Refer to the figure below for the connections. (See page 34)



<Note>

When the unit is connected by cable to an exterior device, set the VTR STBY/SAVE switch to STBY to improve response by the unit.

Menu operations

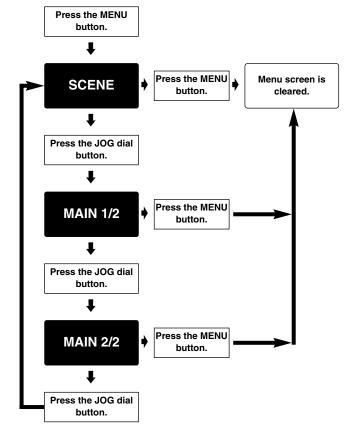
The MENU button and JOG dial button are used for the setting menu operations. The menus consist of main menus and submenus. The data set on the sub-menus is saved in the non-volatile memory and stored for a prolonged period of time.

Menu display enable/disable

1 Press the MENU button.

The main menu SCENE screen is displayed.

- When the JOG dial button is pressed, the main menu MAIN 1/2 screen is displayed.
- When the JOG dial button is pressed, the main menu MAIN 2/2 screen is displayed.
- 4 When the JOG dial button is pressed again, the display returns to the SCENE screen.
- 5 To clear the menu screen, press the MENU button.



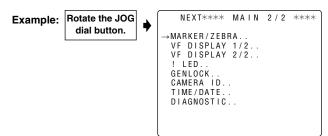
Displaying sub-menus and deciding on settings

1 Rotate the JOG dial button while the main menu is displayed.

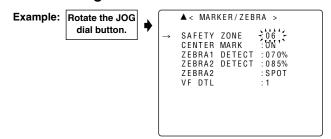
The cursor moves to the sub-menu items.

2 Move the "→" to the desired sub-menu item, and press the JOG dial button.

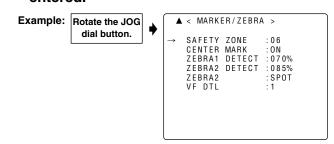
The sub-menu screen now appears. (" \rightarrow " appears at the sub-menu title.



3 Rotate the JOG dial button to move the cursor to the sub-menu item to be changed, and press the JOG dial button. The setting now flashes.



4 Rotate the JOG dial button to change the setting, and press the JOG dial button at the desired setting. The setting is now entered.



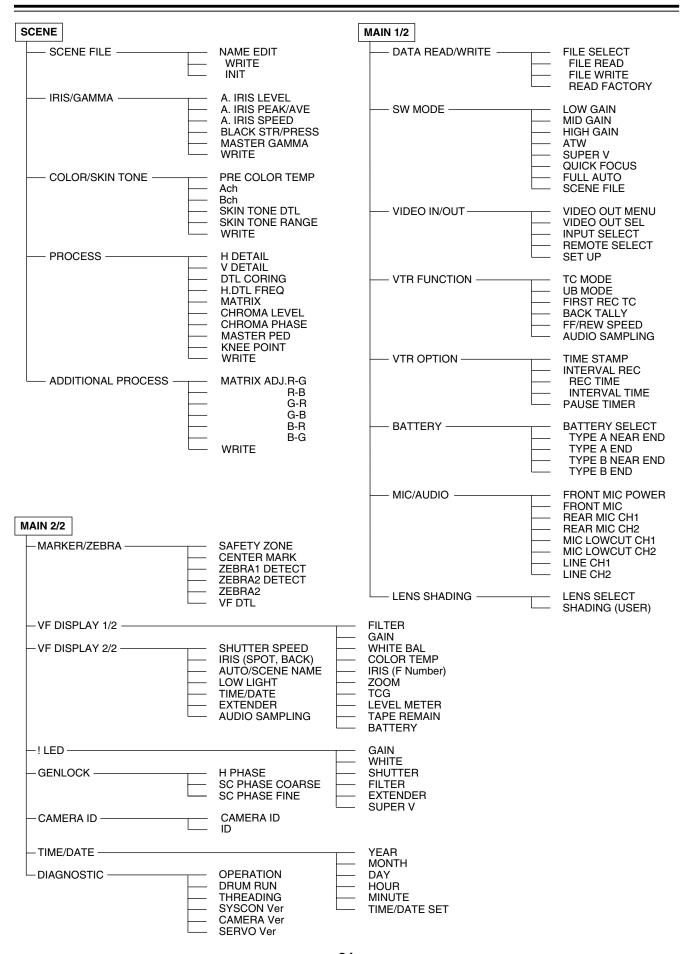
- 5 If there is another item to be set, rotate the JOG dial button to move the cursor, and decide on the setting by performing steps 3 and 4.
- 6 To move to another sub-menu, rotate the JOG dial button to move the cursor to the sub-menu title, and press the JOG dial button.

The main menu screen now appears. Follow the same procedure.

7 Upon completion of the settings, press the MENU button.

The settings are stored in the memory, the setting menu mode is exited, and the normal operation mode is restored.

Setting menu configuration



Menu contents

SCENE menu (main menu)

```
→ NEXT**** SCENE ****
F1:FLUO.
SCENE FILE..
IRIS GAMMA..
COLOR/SKIN TONE..
PROCESS..
```

SCENE FILE

Item	Setting options	Remarks
NAME EDIT	USER F1 - F4 STD	For editing scene filenames. For further details, refer to "Editing scene filenames" (page 23).
WRITE		For writing a scene filename.
INIT		For returning the scene filenames to their factory settings.

IRIS/GAMMA

Item	Setting options	Remarks
A. IRIS LEVEL	-10 : +00 : +10	For setting the AUTO IRIS target value. The brightness (IRIS) is controlled using this value. The higher the setting, the brighter the images shot.
A. IRIS PEAK/AVE	AVE 10 : 01 PEAK 00 : 10	For setting the ratio between the AUTO IRIS peak value control and average value control. With a setting of 10 for AVE, control is exercised completely by the average value; with a setting of 10 for PEAK, control is exercised completely by the peak value.
A. IRIS SPEED	-2 : +0 : +2	For setting the AUTO IRIS speed.
BLACK STR/PRESS	PRESS NORM STR	For selecting the low-brightness black rise. PRESS: The black is compressed, and the images appear tight. NORM: Standard setting STR: The black is extended, and the gradations in the dark areas are expanded.
MASTER GAMMA	-15 : +00 : +05	For setting the master gamma.
WRITE		For saving the data.

COLOR/SKIN TONE

Item	Setting options	Remarks
PRE COLOR TEMP	-30 : +00 : +30	For finely adjusting the color temperature from the white balance when the WHITE BAL switch is set to the PRE position. This does not function with the ATW mode.
Ach	-30 : +00 : +30	For finely adjusting the color temperature from the white balance when the WHITE BAL switch is set to the A position. This does not function with the ATW mode.
Bch	-30 : +00 : +30	For finely adjusting the color temperature from the white balance when the WHITE BAL switch is set to the B position. This does not function with the ATW mode.
SKIN TONE DTL	ON OFF	For setting the skin tone detail ON or OFF. When the skin tone detail is set to ON, the detail in the skin tone areas is reduced, diminishing the feeling of roughness in the skin. <note> When ON has been set for SKIN TONE DTL and the SKIN TONE RANGE or SKIN TONE CORING menu item is being set, the SKIN TONE ZEBRA pattern will appear for 10 seconds.</note>
SKIN TONE RANGE	NORM WIDE	For setting the skin tone detail range. NORM:Normal range WIDE: Wide range
WRITE		For saving the data.

[&]quot;_____" denotes the mode which was set at the factory.

SCENE MENU (main menu) PROCESS

Item	Setting options	Remarks
H DETAIL	-10	For patting the amount of detail in the
I DETAIL	-10	For setting the amount of detail in the horizontal direction.
	<u>+00</u>	
	: +10	
V DETAIL	-05	For setting the amount of detail in the
	:	vertical direction.
	+00	
	+15	
DTL CORING	-5	For setting the amount of detail coring.
	+0	
	10 :	
	+5	
H.DTL FREQ.	2MHz	For setting the detail boost frequency in the horizontal direction.
	3MHz 4MHz	nonzontal direction.
MATRIX	A	For selecting the color compensation matrix
	В	table.
	ADJ	A: Standard settingB: For shooting under fluorescent lighting.
		ADJ: Changes to the MATRIX value set for
		<additional process="">.</additional>
CHROMA LEVEL	-2 .	For setting the chroma level.
	<u>+0</u>	
	: +2	
CHROMA PHASE	-31	For setting the chroma phase.
OTITIOMATTIAGE	:	The skin tone takes on a reddish tinge in
	<u>+00</u>	the "+" direction.
	: +31	
MASTER PED	-26	For setting the master pedestal level.
	:	
	+00	
	+26	
KNEE POINT	90%	For setting the knee point position.
	100%	
WRITE		For saving the data.

ADDITIONAL PROCESS

Item	Setting options	Remarks
MATRIX ADJ.R-G	+00	This is effective when ADJ has been
R-B	+00	selected for the "MATRIX" item of
G-R	+12	<process>. The MATRIX table can be</process>
G-B	+00	adjusted/set as desired.
B-R	+00	
B-G	+00	
WRITE		For saving the data.

MAIN menu 1 of 2 (main menu)

→ NEXT**** MAIN 1/2 ****

DATA READ/WRITE..

SW MODE..

VIDEO IN/OUT..

VTR FUNCTION..

VTR OPTION..

BATTERY..

MIC/AUDIO..

LENS SHADING..

DATA READ/WRITE

Item	Setting options	Remarks
FILE SELECT	1/2/3/4	For storing the menu setting parameters in the memory. For further details, refer to "How to use file select." (page 28)

SW MODE

Item	Setting options	Remarks
LOW GAIN	0dB : 36dB	For setting the gain allocated to the LOW GAIN switch. A setting from 0 to 36 dB can be selected.
MID GAIN	0dB : 9dB : 36dB	For setting the gain allocated to the MID GAIN switch. A setting from 0 to 36 dB can be selected.
HIGH GAIN	0dB : 18dB : 36dB	For setting the gain allocated to the GAIN GAIN switch. A setting from 0 to 36 dB can be selected.
ATW	PRE Ach Bch OFF	For setting at which WHITE BAL switch position the full time auto white balance mode is to be enabled. PRE:ATW is enabled at the PRE position. Ach: ATW is enabled at the Ach position. Bch: ATW is enabled at the Bch position. OFF:Full time auto balance is not performed.
SUPER V	ON OFF	For selecting the vertical high resolution mode.
QUICK FOCUS	ENABLE DISABLE	For enabling or disabling the quick focus function.
FULL AUTO	ENABLE DISABLE	For enabling or disabling the full auto function.
SCENE FILE	ENABLE DISABLE	For enabling or disabling the scene file function. ENABLE: The scene file function is enabled. DISABLE: The scene file function is restricted to the user files.

[&]quot;_____" denotes the mode which was set at the factory.

MAIN menu 1 of 2 (main menu) VIDEO IN/OUT

Item	Setting options	Remarks
VIDEO OUT MENU	ON OFF	For selecting whether to output the menu screens to the VIDEO OUT connector. ON: The screens are output. OFF: The screens are not output. <note> The VIDEO OUT MENU item is valid only when ENC has been selected as the VIDEO OUT SETTING setting.</note>
VIDEO OUT SEL	ENC VF	For selecting whether the VTR signals or VF signals are to be output from the VIDEO OUT connector. ENC: VTR output VG: VF output
INPUT SELECT	CAMERA 1394	For selecting the input signals of the VTR to be recorded. CAMERA: Unit's camera signals 1394: Signals from 1394
REMOTE SELECT	LOCAL 1394	For selecting the VTR control. LOCAL: Control from the unit only 1394: Control from 1394
SET UP	<u>0%</u> 7.5%	For selecting the CAM OUT/VIDEO OUT output setup. For selecting the CAM OUT/VIDEO OUT output setup. When 7.5 % is selected, 7.5 % setup is also applied to the tape.

VTR FUNCTION

Item	Setting options	Remarks
TC MODE	DF NDF	For setting the time code to the DF or NDF mode. DF: Drop frame mode NDF: Non-drop frame mode
UB MODE	USER TIME DATE TCG	For selecting what is to be recorded in the user's bit area. USER: User setting (fixed) TIME: Real time value in hours/minutes/seconds DATE: Real time value in year/month/day/hours TCG: Time code generator value
FIRST REC TC	REGEN PRESET	For selecting whether the TC REGEN mode is to be established when recording is started. REGEN: The regeneration mode is established for the time code on the tape. PRESET: The regeneration mode is not established for the time code on the tape. However, it is forcibly established when the unit is transferred from REC PAUSE to REC.
BACK TALLY	ON OFF	For selecting whether the back tally lamp is to light. ON: The lamp lights. OFF: The lamp does not light.
FF/REW SPEED	x32 x64 x100	For setting the fast forward and rewind speed. x32: 32 times normal speed x64: 64 times normal speed x100:100 times normal speed
AUDIO SAMPLING	32K 48K	For selecting the audio sampling frequency. 32K: 32 kHz 48K: 48 kHz

VTR OPTION

Item	Setting options	Remarks
TIME STAMP	REC NO-REC	For selecting whether to superimpose the date and time onto the camera's video recording. REC: Superimposed NO-REC: Not superimposed
INTERVAL REC	OFF ON ONE-SHOT	For setting whether to perform intermittent recording. OFF: Not performed ON: Performed ONE-SHOT: Recording is performed once for the period set for REC TIME, and then stops.
REC TIME	00m05s : 59m59s	For setting the recording time for intermittent recording. <note> The REC TIME setting is effective only when ON or ONE-SHOT is set for INTERVAL REC.</note>
INTERVAL TIME	00h00m10s : 23h59m59s	For setting the REC PAUSE time during intermittent recording. <note> The INTERVAL TIME item is valid only when ON has been selected as the INTERVAL REC setting.</note>
PAUSE TIME	10min 20min 30min	For setting the time that is allowed to elapse before REC PAUSE is replaced with SAVE. 10min: 10 minutes 20min: 20 minutes 30min: 30 minutes

BATTERY

Item	Setting options	Remarks
BATTERY SELECT	NiCd12 NiCd13 NiCd14 TYPE A	For selecting the type of battery used. NiCd12: NP-1B made by Sony NiCd13: TRIM13 made by Anton Bauer NiCd14: TRIM14 made by Anton Bauer TYPE A: AJ-BP490 TYPE B: Digital 14V (Hitron 100) made by Anton Bauer
TYPE A NEAR END	11.0V : 11.6V : 15.0V	For designating the type A voltage. When the voltage set here is reached, the battery is considered to have a minimal remaining charge, and a warning is displayed. A voltage from 11.0V to 15.0V is used as the setting.
TYPE A END	11.0V : 11.2V : 15.0V	For designating the type A voltage. When the voltage set here is reached, the battery is considered to be flat, and a warning is displayed. A voltage from 11.0V to 15.0V is used as the setting.
TYPE B NEAR END	11.0V : 12.7V : 15.0V	For designating the type B voltage. When the voltage set here is reached, the battery is considered to have a minimal remaining charge, and a warning is displayed. A voltage from 11.0V to 15.0V is used as the setting.
TYPE B END	11.0V : 12.4V : 15.0V	For designating the type B voltage. When the voltage set here is reached, the battery is considered to be flat, and a warning is displayed. A voltage from 11.0V to 15.0V is used as the setting.

[&]quot;_____" denotes the mode which was set at the factory.

Menu contents

MAIN menu 1 of 2 (main menu) MIC/AUDIO

Item	Setting options	Remarks
FRONT MIC POWER	ON OFF	ON: Phantom power is supplied to the front microphone. OFF: Phantom power is not supplied to the front microphone.
FRONT MIC	-40dB -50dB -60dB	For selecting the camera mic input level.
REAR MIC CH1	-40dB -50dB -60dB	For setting the input mic level for the rear jack AUDIO CH1 input.
REAR MIC CH2	-40dB -50dB -60dB	For setting the input mic level for the rear jack AUDIO CH2 input.
MIC LOWCUT CH1	ON OFF	ON: The low-cut filter is set to ON for the rear jack AUDIO CH1 mic input. OFF: The low-cut filter is set to OFF for the rear jack AUDIO CH1 mic input.
MIC LOWCUT CH2	ON OFF	ON: The low-cut filter is set to ON for the rear jack AUDIO CH2 mic input. OFF: The low-cut filter is set to OFF for the rear jack AUDIO CH2 mic input.
LINE CH1	+4dB 0dB <u>-6dB</u>	For selecting the rear jack AUDIO CH1 line input level.
LINE CH2	+4dB 0dB -6dB	For selecting the rear jack AUDIO CH2 line input level.

LENS SHADING

Item	Setting options	Remarks
LENS SELECT	A B	For selecting the type of lens mounted on the unit.
	С	A: S18 x 6.7BERM4
	USER	S18 x 6.7BRM4
		S19 x 6.5BERM4
		S19 x 6.5B
		YH18 x 6.7IRS
		YH12 x 4.8IRS
		B: YH18 x 6.7KRS
		YH14 x 7.3KRS
		YH12 x 4.8KRS
		S14 x 7.5BRM4
		S17 x 6.6BRM4
		C: S14 x 7.3BRM
		(For AG-DVC200L)
		USER:Lens other than A, B or C
SHADING (USER)		For performing shading compensation for the USER lens.

MAIN menu 2 of 2 (main menu)

```
→ NEXT**** MAIN 2/2 ****

MARKER/ZEBRA..

VF DISPLAY 1/2..

VF DISPLAY 2/2..
! LED..
GENLOCK..
CAMERA ID..
TIME/DATE..
DIAGNOSTIC..
```

MARKER/ZEBRA

Item	Setting options	Remarks
SAFETY ZONE	OFF 01 : 06 : 09	For selecting the shape of the safety markers. OFF: No markers are displayed. 01: 80% and 90% corner display 02: 80% corner display 03: 90% corner display 04: 80% and 90% box display 05: 80% box display 06: 90% box display 07: 16:9 picture frame and 90% of 16:9 display 08: 16:9 picture frame (100%) display
CENTER MARK	ON OFF	For setting the center marker display to ON or OFF. ON: Displayed OFF: Not displayed
ZEBRA1 DETECT	070% : 104%	For setting the boundary at which the zebra 1 pattern appears.
ZEBRA2 DETECT	071% : <u>085%</u> : 105%	When the next menu item, ZEBRA2, is set to SPOT or OFF: →This item sets the boundary at which the zebra 1 pattern appears. When the next menu item, ZEBRA2, is set to ON: →This item sets the boundary level at which the pattern is switched to zebra 1. <note> The ZEBRA2 DETECT level must be set higher than the ZEBRA1 DETECT level.</note>
ZEBRA2	ON OFF SPOT	For selecting the zebra 2 pattern type. ON: Zebra patterns 1 and 2 are displayed. OFF: Only zebra pattern 1 is displayed. SPOT: Zebra pattern 1 is displayed from the level set for ZEBRA1 DETECT to the level set for ZEBRA2 DETECT.
VF DTL	1 2 3 OFF	For selecting VF DTL. The higher the number, the more the detail of the signals for the viewfinder is emphasized. When OFF is set, the detail signals are not output.

[&]quot;_____" denotes the mode which was set at the factory.

Menu contents

MAIN menu 2 of 2 (main menu) VF DISPLAY 1/2

The information to be displayed in the viewfinder is selected on this menu.

Item	Setting options	Remarks
FILTER	ON OFF	For setting the filter position display ON or OFF. ON: Displayed OFF: Not displayed
GAIN	ON OFF	For setting the gain switch position display ON or OFF. ON: Displayed OFF: Not displayed
WHITE BAL	ON OFF	For setting the WHITE BAL switch position and ATW display ON or OFF. ON: Displayed OFF: Not displayed
COLOR TEMP	ON OFF ATW ONLY	For setting the color temperature and fine color temperature adjustment amount displays ON or OFF. ON: Displayed OFF: Not displayed ATW ONLY:The color temperature is displayed only with ATW, and the fine color temperature adjustment amount is not displayed.
IRIS	<u>ON</u>	For setting the F-value display ON or OFF.
(F Number)	OFF	ON: Displayed OFF: Not displayed For setting the zoom display ON or OFF.
ZOOW	OFF	ON: Displayed OFF: Not displayed
TCG	TCG TCR TCG/TCR OFF	For setting the time code display ON or OFF. TCG: The value set using the TC/UB/COUNTER switch is displayed in the EE mode only. TCR: The value set using the TC/UB/COUNTER switch is displayed in the VV mode only. TCG/TCR: Depending on the TC/UB/COUNTER switch setting, the TCG/UBG/COUNTER value is displayed in the EE mode, and the TCR/UBR/COUNTER value is displayed in the VV mode. OFF: Not displayed
LEVEL METER	OFF CH1 CH2 CH1+CH2	For setting the audio level meter display ON or OFF. OFF: Not displayed CH1: Only the CH1 audio level is displayed. CH2: Only the CH2 audio level is displayed. CH1+CH2: The CH1 and CH2 audio levels are displayed.
TAPE REMAIN	ON OFF	For setting the tape type and remaining tape display ON or OFF. ON: Displayed OFF: Not displayed
BATTERY	ON OFF	For setting the battery voltage display ON or OFF. ON: Displayed OFF: Not displayed

VF DISPLAY 2/2

The information to be displayed in the viewfinder is selected on this menu.

Item	Setting options	Remarks
SHUTTER SPEED	ON OFF	For setting the shutter speed display ON or OFF when the shutter is ON. ON: Displayed OFF: Not displayed
IRIS (SPOT, BACK)	ON OFF	For selecting whether SPOT or BACK is to be displayed when the auto iris selector switch is at SPOT.L or BACK.L. ON: Displayed OFF: Not displayed
AUTO/SCENE NAME	ON OFF	For setting the AUTO or SCENE FILE name display ON or OFF when FULL AUTO or SCENE FILE has been selected. ON: Displayed OFF: Not displayed
LOW LIGHT	ON OFF	For setting the LOW LIGHT display ON or OFF when shooting under low-light conditions. ON: Displayed OFF: Not displayed
TIME/DATE	TIME DATE TIME+DATE OFF	For selecting whether to display the date and time when the camera's images are output. TIME: Only the time is displayed. DATE: Only the date is displayed. TIME+DATE:The time and date are displayed. OFF: Neither the time nor date is displayed.
EXTENDER	ON OFF	For setting the EXT display ON or OFF when the extender is ON. ON: Displayed OFF: Not displayed
AUDIO SAMPLING	ON OFF	For setting the sampling frequency display ON or OFF. ON: Displayed OFF: Not displayed

[&]quot;_____" denotes the mode which was set at the factory.

Menu contents

MAIN menu 2 of 2 (main menu) !LED

Whether the !LED display is to appear on the viewfinder screen is selected on this menu.

Item	Setting options	Remarks
GAIN	OFF W/O 0dB	For setting the !LED display ON or OFF at any gain setting except 0 dB. OFF: Not displayed W/0 dB: Displayed at any gain setting except 0 dB
WHITE	ATW PRE OFF	For setting the !LED display ON or OFF when the WHITE BAL switch is at the PRE position or ATW has been set. ATW:Displayed in the ATW mode. PRE: Displayed when PRE is the position setting. OFF: Not displayed
SHUTTER	ON OFF	For setting the !LED display ON or OFF when the shutter is ON. ON: Displayed OFF: Not displayed
FILTER	OFF W/O No 1 No 1 NG	For setting the !LED display relating to the filter ON or OFF. OFF: Not displayed W/0 No.1: Displayed except when filter 1 is set. No.1: Displayed when filter 1 is set. NG: Displayed when the filter position is not fixed.
EXTENDER	ON OFF	For setting the !LED display ON or OFF when the extender is ON. ON: Displayed OFF: Not displayed
SUPER V	ON OFF	For setting the !LED display ON or OFF when SUPER V is ON. ON: Displayed OFF: Not displayed

GENLOCK

Item	Setting options	Remarks
H PHASE	000	For finely adjusting the horizontal sync phase during gen-lock.
	200 : 255	
SC PHASE COARSE	00 : <u>07</u> : 15	For coarsely adjusting the burst phase during gen-lock.
SC PHASE FINE	000 : 128 : 255	For finely adjusting the burst phase during gen-lock.

CAMERA ID

Item	Setting options	Remarks
CAMERA ID	ID ID+ (TIME+ DATE) OFF	For displaying and recording the ID data when color bar signals are supplied. ID: The ID data is displayed and recorded. ID+(TIME+DATE): The ID data and time/date are displayed and recorded. OFF: The ID data is neither displayed nor recorded.

TIME/DATE

Item	Setting options	Remarks
YEAR	00	For setting the year.
	: <u>01</u> : 99	
MONTH	<u>01</u>	For setting the month.
		-
DAY	<u>01</u>	For setting the day of the month.
	31	
HOUR	<u>00</u>	For setting the hour.
	23	
MINUTE	<u>00</u>	For setting the minutes.
	59	

DIAGNOSTIC

Item	Setting options	Remarks
OPERATION		VTR ON time (indicated in hour increments)
DRUM RUNNING		Head cylinder rotation time (indicated in hour increments)
THREADING		Number of loading/unloading times
SYSCON Ver		SYSCON software version display
CAMERA Ver		CAMERA software version display
SERVO Ver		SERVO software version display

[&]quot;_____" denotes the mode which was set at the factory.

Warning system

When an error or trouble is detected immediately after the power is turned on or while an operation is underway, the WARNING lamp and lamps inside the viewfinder serve to alert the user to the occurrence of the error or trouble.

■ SLACK

WARNING lamp	Flashes four times per second.
Tally lamp	Flashes four times per second.
Viewfinder	The SLACK display flashes.
Description of warning	Trouble has occurred in the motor, solenoid or other mechanism.
VTR unit operation	The tape stops traveling. When solenoid trouble has been detected, the power is turned off.
Remedial action	Check the error code (see page 40) shown in the viewfinder and consult your nearest service center.

■ REC WARNING

WARNING lamp	Flashes four times per second (for over 3 seconds during recording).
Tally lamp	Flashes four times per second (for over 3 seconds during recording).
Viewfinder	The REC WARNING display flashes (for over 3 seconds during recording).
Description of warning	Trouble has occurred with the recording control signals.
VTR unit operation	Recording continues but it may not be performed properly while the warning is displayed.
Remedial action	This trouble has occurred with the control signals inside the unit. Consult your nearest service center.

■ RF

WARNING lamp	Flashes four times per second (during recording).				
Tally lamp	Flashes four times per second (during recording).				
Viewfinder	The RF display flashes (during recording).				
Description of warning	The video heads are clogged. This trouble occurs in the recording system.				
VTR unit operation	The cleaning roller is actuated to clean the heads (max. 3 seconds). Recording continues but it may not be performed properly. The warning display remains flashing up to the REC/PAUSE mode. It goes out when the unit's mode is transferred from REC/PAUSE.				
Remedial action	Clean the heads. If recording still cannot be performed properly even after cleaning, turn off the unit's power, and consult your nearest service center.				

■ SERVO

WARNING lamp	Flashes four times per second (during recording		
WANNING IAMP	and playback).		
Tally lamp	Flashes four times per second (during recording and playback).		
Viewfinder	The SERVO display flashes (during recording and playback).		
Description of warning	The servo is out of sync.		
VTR unit operation	Operation continues but it may not be performed properly.		
Remedial action	Turn off the unit's power, and consult your dealer.		

■ HUMID

WARNING lamp	Lights when condensation has been detected. Flashes once a second from 10 minutes after the condensation detection has been released for a duration of 80 minutes.			
Tally lamp	 Flashes four times per second starting at the time when the condensation was detected until 10 minutes have elapsed after the condensation detection was released. The lamp turns off 10 minutes after the condensation dectection status is released. 			
Viewfinder	The HUMID display flashes starting at the time when the condensation was detected until 90 minutes have elapsed after the condensation detection was released.			
Description of warning	Condensation has formed.			
VTR unit operation	The recording operation continues but it will stop if the tape sticks. For 80 minutes after the condensation detection was released, the operation which causes the drum to rotate is not acknowledged.			
Remedial action	Stop the tape travel, and turn off the unit's power. If the HUMID display fails to go out even after the power has been turned back on, wait until it goes out.			

■ TAPE NEAR END

WARNING lamp	Flashes once per second (during recording).	
Tally lamp	Flashes once per second (during recording).	
Viewfinder	The remaining tape display flashes (in the EE mode) flashes for 3 seconds one minute before the tape-end.	
Description of warning	The tape is approaching its end (2 minutes remain).	
VTR unit operation	Operation continues.	
Remedial action	Replace the cassette tape as necessary.	

Warning system

■ TAPE END

WARNING lamp	Lights (during stop and standby OFF).			
Tally lamp	Flashes four times per second (during stop and standby OFF).			
Viewfinder	menus lights, and the TAPE END display flashes (during stop and standby OFF).			
Description of warning	The tape has come to the end.			
VTR unit operation	If the unit is in the recording, playback or fast forward mode, operation is stopped.			
Remedial action	Rewind the tape. Alternatively, replace the cassette tape.			

■ BATTERY END

WARNING lamp	Lights.			
Tally lamp	Flashes once per second.			
Viewfinder	The BATT END display flashes.			
Description of warning	The battery is flat.			
VTR unit operation	All operations are stopped, and the tape is unloaded. Only the cassette tape eject operation is acknowledged.			
Remedial action	Replace the battery.			

■ BATTERY NEAR END

WARNING lamp Flashes once per second.			
Tally lamp	Flashes once per second.		
Viewfinder	The BATT NEAR END display flashes.		
Description of warning	The battery is nearly flat.		
VTR unit operation	Operation continues.		
Remedial action	Replace the battery as necessary.		

<Note>

Given below is the sequence of priority for the WARNING lamp, tally lamp and warnings in the viewfinder. If more than one error has occurred at the same time, the display with the higher priority appears.

- 1. SLACK
- 2. BATTERY END
- 3. REC WARNING
- 4. TAPE END
- 5. HUMID
- 6. SERVO
- 7. RF
- 8. BATTERY NEAR END
- 9. TAPE NEAR END

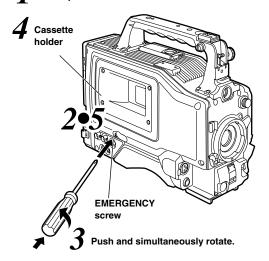
Emergency eject

If the cassette cannot be ejected even when the EJECT button is pressed, the tape can still be removed by using a screwdriver to push and simultaneously rotate the EMERGENCY screw.

1 Set the power to OFF.

2 As shown in the figure, remove the rubber cap, and insert a Phillips head screwdriver into the cross-recessed part of the EMERGENCY screw (red).

Set the power to OFF.



- 3 While pushing the screwdriver, keep turning the EMERGENCY screw counterclockwise until the tape is ejected.
 - From the moment when the screw is first turned, it takes about 20 turns for unloading to commence.
 - From the moment when the screw is first turned, it takes about 90 turns for the tape to be ejected.
- $oldsymbol{4}$ Remove the cassette.
- 5 Return the rubber cap to its original position.

<Notes>

- Refrain from turning the EMERGENCY screw except in an emergency.
- Do not turn the screw clockwise. Do not turn the screw any more after the tape has been ejected. Doing so may damage the mechanism.
- After the tape has been ejected, the cassette holder will not lock even when it is closed. The power must be turned back on, and the mechanical operations reset before closing the cassette holder.
- When the EMERGENCY screw is turned, a clicking sound will be heard: this is the sound of the reel drive operating which is normal and not indicative of malfunctioning.

Maintenance

Condensation

When the unit is taken from cold to warm surroundings or used in a very humid place, the water vapor contained in the air may turn into droplets of water when it makes contact with the head drum. This phenomenon is known as condensation, and if the tape is run while condensation has formed inside the unit, the tape tends to stick to the head drum.

Bear in mind the following points:

- Remove the tape before starting to use the unit under conditions which may be conducive to the formation of condensation.
- Before inserting the tape, set the power switch to ON, and check that the HUMID display has not lighted in the viewfinder.

<Note>

To ensure safety, the HUMID display remains flashing and the head drum is rotated for 80 minutes after the condensation detection has been released.

During this period, none of the control buttons will operate.

Replacing the backup battery

The backup battery is mounted in the unit prior to the unit's shipment from the plant.

When the backup battery is used up and the power switch is set to ON, the BACKUP BATTERY EMPTY message appears in the viewfinder for 5 seconds.

After consulting your dealer, replace the old backup battery with a new one (CR2032 or BR2032). After replacing the battery, press the backup battery cover firmly into place until a click is heard. For details on the battery position, refer to "Parts and their functions" (pages 6 and 7).

Cleaning the heads

Use the AY-DVCL cleaning cassette when it is necessary to clean the heads.

Since the video heads may be damaged if the proper directions for using cleaning cassette are not followed, read the handling instructions which accompany the cleaning tape prior to use.

Cleaning inside the viewfinder

- Do not use paint thinners or other solvents to remove dirt.
- Use a lens cleaner available on the market to wipe the lens.
- Never wipe the mirror under any circumstances.
 If dirt or dust has adhered to the mirror, blow it away using an air blower available on the market.

Concerning phenomena inherent to CCD cameras

Smear

This may occur when extremely bright subjects are shot. The higher the electronic shutter speed, the more this phenomenon is liable to occur.

Error codes

When an error has occurred in the unit for some reason or other, one of the error codes shown on the right will be displayed in the viewfinder.

Code No.	Description			
04	Pinch solenoid trouble			
08	Cleaning solenoid trouble			
0B	Supply reel trouble			
0C	Take-up reel trouble			
0D	Capstan trouble			
0E	Head cylinder trouble			
0F	Loading trouble			

Specifications

[GENERAL]

Power requirements: DC 12V (11.0V to 17.0V)

Power consumption: 17W

indicates safety information.

Operating temperature: 0 to 40 CStorage temperature: -20 to +60 C

Operating humidity: Less than 85% (relative humidity)

Continuous operating time: Approx. 120 min. (continuous recording time using the

TRIMPAC14 made by Anton Bauer)

Dimensions: 123(W) x 190(H) x 292(D) mm (excluding grip)

Weight: Approx. 3 kg (main unit only)

[CAMERA UNIT]

Quantizing:

Sampling frequency:

Digital signal processing:

Horizontal drive frequency:

Pickup device: 1/2-inch IT type CCD (410,000 pixels)

System:RGB 3-CCD systemTotal number of pixels:811(H) x 508(V)Number of effective pixels:768(H) x 494(V)Spectral system:f/1.4 prism systemInternal filters:1: 3200K (clear)

2: 5600K + 1/8N

3: 5600K

4: 5600K + 1/64ND 10 bits, non-linear 14.31818 MHz (4 fsc) 28.63636 MHz (8 fsc)

28.63636 MHz (8 fsc)

Programmable gain: 3 positions (L, M and H) selected from 0, 3, 6, 9, 12, 15, 18,

21, 24, 30, 36 dB

Shutter speed Preset: 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000

Variable: 1/60.3 to 1/250.0

Lens mount:Bayonet typeSensitivity:f/11 (2000 lux)

Minimum subject brightness: 0.5 lux (at f/1.4 + 36 dB)

Video S/N ratio: 62 dB (standard)

Horizontal resolution: Over 800 lines (at center) (CAM OUT connector)

Registration: Less than 0.05% (total area, lens distortion excluded)

Geometric distortion: Negligible (lens distortion excluded)

Specifications

[VTR UNIT]

Video system

Recording format: DV format Sampling frequency Y: 13.5 MHz

PB/PR: 3.375 MHz

Quantizing: 8 bits

Audio system

Recording format: Digital PCM stereo recording

16 bits (48 kHz/2 channels)
12 bits (32 kHz/2 channels)
20 Hz to 20 kHz (at 48 kHz)

Frequency response: 20 Hz to 20 kHz (at 48 kHz)

Tape transport system

Tape format: DV standard cassettes

Tape speed: 18.812 mm/sec.

Maximum recording time: 270 min.

[CONNECTOR SECTION]

Input

AUDIO IN CH1/CH2 (XLR x 2, 3 pins): LINE/MIC/MIC+48V switching system

MIC: -40, -50, -60 dBu menu-selectable
LINE: -6, 0, +4 dBu menu-selectable
MIC+48V: Phantom +48V supported

MIC IN (XLR x 2, 3 pins): MIC/MIC+48V switching system

MIC: -40, -50, -60 dBu menu-selectable

MIC+48V: Phantom +48V supported (menu-selectable)

GEN LOCK IN (BNC): 1.0 V_{P-P} , 75 Ω

Output

CAMERA OUT (BNC):1.0 V_{P-P}, 75 ΩVIDEO OUT (BNC):1.0 V_{P-P}, 75 Ω

S-VIDEO OUT (S connector) Y signal: 1.0 V_{P-P} , 75 Ω

C signal: 0.286 V_{P-P} , 75 Ω

AUDIO OUT CH1/CH2 (RCA x 2): -6 dBu, low impedance, unbalanced

PHONE OUT (stereo mini jack): -30 to -80 dBu

Other

DV 1394 (4 pins): DC IN (XLR, 4 pins, male):IEEE1394 input/output

DC 12V (DC 11 to 17V)

DC OUT (4 pins): DC 12V (DC 11 to 17V), max. 1A (DC 7V, max. 1A output

also available)

LENS (multi-connector, 12 pins) EVF (multi-connector, 20 pins)

Specifications

[VIEWFINDER]

(Optional accessory AJ-VF10P)

CRT: 1.5-inch high-resolution monochrome CRT

Video system: 525i/59.94 Hz

External controls Controls: BRIGHT, CONTRAST, PEAKING

Switches: TALLY HIGH/OFF/LOW, ZEBRA ON/ OFF

[ACCESSORIES]

Battery holder (already installed on unit) for Anton Bauer products

Microphone

Tripod plate

[RELATED EQUIPMENT]

Power supply-related products

Battery packs: AU-BP402, AJ-BP490

Battery chargers: AJ-B425 (for charging the AU-BP402 battery pack)

AJ-B450 (for charging the AU-BP402 and the AU-BP490

battery pack)

Battery case: AU-M402H **AC adapter:** AJ-B75

Audio products

Microphone kit:AJ-MC700PMicrophone holder:AJ-MH700PWireless mic receiver:WX-RJ700Camera attachment:WX-ZJ770

Maintenance products

Cleaning tape:AY-DVCLSoft carrying case:AJ-SC900Rain cover:SHAN-RC700

Shoulder strap: VFC2588 (service part)

Panasonic

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SERVICE INFORMATION

CONTENTS

1.	Service Menu	INF-1
	I-1. Method of Displaying Service Menu Main Page	INF-1
	1-1-1. MAIN menu screen	INF-1
	1-1-2. SUB menu screen [FLARE/GAMMA]	INF-1
	1-1-3. SUB menu [WHITE SHADING]	INF-1
	1-1-4. SUB menu [VTR SERVICE 1/2]	INF-1
	1-1-5. SUB menu [VTR SERVICE 2/2]	INF-2
	1-1-6. SUB menu [INITIALIZE]	INF-2
	1-1-7. SUB menu [EVR DATA]	INF-2
	1-1-8. SUB menu [ERROR LOG]	INF-2
	1-1-9. SUB menu [DIF STATUS]	INF-3
2.	Method of Checking Error Rate	INF-3
3.	Method of Displaying Software Version and Hour Meter	INF-4
;	3-1. Preparation for the updating	
	3-1-1. Parts needed for writing the flash memories	INF-4
	3-1-2. Installing the flash memory version up software	INF-4
	3-1-3. Cable connection	INF-4
	3-1-4. Setting WRITE SELECT SW	INF-4
;	3-2. Procedure of writing VTR system control software	INF-5
,	3-3. Procedure of writing SERVO control software	INF-5
;	3-4. Procedure of writing Camera control software	INF-6
4.	Emergency Eject	INF-7
5.	Cleaning Method	INF-8
!	5-1. Cleaning video heads	INF-8
	5-2. Cleaning drum lead	
	5-3. Cleaning pinch roller and capstan	
	5-4. Cleaning posts	
	AUTO OFF LIST	

1. Service Menu

1-1. Method of Displaying Service Menu Main **Page**

Under the selfing WHITE BAL SW to "PRST" side and OUT PUT SW to "BAR" side, by pressing MENU SW while turning ON AWB SW the following menu is displayed on the view finder.

The method of changing the setting, selecting the items, and switching the menu page is same as that for User menu.

1-1-1. MAIN menu screen

® NEXT **** SERVICE ****

FLARE/GAMMA.. WHAITE SEADING... **DEFECT COMPENSATION** VTR SERVICE 1/2.. VTR SERVICE 2/2.. INITIALIZE.. **EVR DATA..** ERROR LOG.. **DIF STTUS...**

SOFT REVISION: VO.0001a

Each item in the MAIN menu is the index to open the SUB menu of the item.

1-1-2. SUB menu screen [FLARE/GAMMA]

® ▲< FLARE/GAMMA > **R FLARE** :100 **G FLARE** :100 :100 **B FLARE** R GAMMA :+00 **B GAMMA** :+00 **R GAIN** :+00 **B GAIN** :+00 **WITE CLIP** :105%

Menu contents [FLARE/GAMMA]				
Item	Variable range	Initial value	Content	
R FLARE	-128~+127	+00	Varying Rch flare	
G FLARE	-128~+127	+00	Varying Gch flare	
B FLARE	-128~+127	+00	Varying Bch flare	
R GAMMA	-15~+15	+00	Varying Rch gamma	
B GAMMA	-15~+15	+00	Varying Bch gamma	
R GAIN	-30~+30	+00	Varying Rch gain	
G GAIN	-30~+30	+00	Varying Bch gain	

1-1-3. SUB menu [WHITE SHADING]

WHITE SHADING:READY

Menu contents [WHITE SHADING]

Item	Content
WHITE SHADING	Starting AUTO WHITE SHADING

1-1-4. SUB menu [VTR SERVICE 1/2]

® ▲< VTR SERVICE 1/2 > CONCEAL :ON **INEER ECC** :ON **OUTER ECC** :ON VITERVI :ON **BER ADJ** :ON BER SPEED :SLOW BER RESULT :2.7 3.4 **AUTO EQ** :ON **AUTO ADJ** :OFF

Menu contents IVTR SERVICE 1/21

Menu Contents [VIR SERVICE 1/2]				
Item	Variable range	Initial value	Content	
CONCEAL	ON/OFF	ON	Concealment	
INEER ECC	ON/OFF	ON	Inner error correction	
OUTER ECC	ON/OFF	ON	Outer error correction	
VITERVI	ON/OFF	ON	Viterbi detection/decoding	
BER ADJ	ON/OFF	OFF	Error rate detection	
BER SPEED	SLOW :60 flames FAST :10 flames	SLOW	Error rate detection mode	
BER RESULT	Lch/Rch		Switching error rate display	
AUTO EQ	ON/OFF	ON	AUTO EQ	
AUTO ADJ	ON/OFF	OFF	Automatic adjustment of equalizer	

1-1-5. SUB menu [VTR SERVICE 2/2]

® ▲ < VTR SERVICE 2/2 >

T TORQUE :0
S TORQUE :0
PG SHIFT :READY

HSW_A_RIZE :1564 HSW_A_FALL :1564 RP GAIN :-40 RP LIN :OFF

T/S PHOTO :T0.0V/S0.0V

Menu contents [VTR SERVICE 2/2]

Menu contents [VIR SERVICE 2/2]				
Item	Variable range	Initial value	Content	
T TORQUE	+ 000		T-side reel torque adjustment	
S TORQUE	+ 000		S-side reel torque adjustment	
	READY/			
PG SHIFT	ACTIVE/		PGMM adjustment	
	OK			
LICAL A DIZE	0.4006	4505	Display of PGMM adjustment	
HSW_A_RIZE	0~4096 1565		Result	
LIONAL A FALL	0 4000	4505	Display of PGMM adjustment	
HSW_A_FALL	0~4096	1565	Result	
DD CAIN	-128~		ATE main adjustment	
PR GAIN	+128	0	ATF gain adjustment	
PR LIN	OFF/ON	OFF	ATF linearity	
T/O DUIOTO	-128~	0.0V~		
T/S PHOTO	+128	3.3V	Terminal photo-level display	

1-1-6. SUB menu [INITIALIZE]

® ▲ < INITIALIZE >

DRUM RUN RESET :READY THREADING RESET :READY SYSTEM FULL INIT :READY

Menu contents [INITIALIZE]

mona contonte [mm.	·/ \=:==;
Item	Content
DRUM RUN RESET	Initializing DRUM RUN of hour meter
THREADING RESET	Initializing THREADING of hour meter
SYSTEM FULL INIT	Initializing all system data

1-1-7. SUB menu [EVR DATA]

® ▲< EVR DATA >

(01)XX (02)XX (03)XX (04)XX (05)XX (06)XX (07)XX (08)XX (09)XX (09)XX (0A)XX (0B)XX (0C)XX (0D)XX (0E)XX (0F)XX (10)XX (11)XX (12)XX (13)XX (14)XX (15)XX (16)XX (17)XX (18)XX (19)XX (1A)XX (1B)XX (1C)XX (1D)XX (1E)XX (1F)XX (20)XX (21)XX (22)XX (23)XX (24)XX

D/A ADDRESS :01 D/A DATA :XX

Menu contents [EVR DATA]

-	-
Item	Content
D/A ADDRESS	Table of EVR adjustment values
D/A DATA	Table of EVR adjustment values

1-1-8. SUB menu [ERROR LOG]

® ▲ < ERROR LOG > FILE No. :1 LOG ALL CLEAR :0 ERR CODE/SEQ :E-00 00 DATE :2001.01.01 TIME :12:34:56 OPE TIME :000000Hr TAPE TOTAL :200min **TAPE REMAIN** :100min **BATTERY** :13.5V OBJ/MODE 000012:34:50 000012:34:52 000012:34:50 000012:34:56 000012:34:55

Menu contents [ERROR LOG]

Mena contents		oj .
Item	Variable range	Content
FILE No.	1~5/OFF	File No.
LOG ALL CLAER	ON/OFF	ON: Deleting LOG DATA
ERR CODE/SEQ	E-00 OO	Error code, Sequence No.
DATE	2001.01.01	YY. MM. DD
TIME	12:34:56	Time
OPE TIME	000010Hr	Operating time
TAPE TOTAL	200min	Total length of tape
TAPE REMAIN	100min	Remaining amount of tape
	1:	
BATTERY	1-F:	
	7-F	
		Double figures: OBJECT
OD I/MODE	000012:34:50	Double figures: MODE
OBJ/MODE		Double figures: Time of
		occurrence

1-1-9. SUB menu [DIF STATUS]

® ▲ < DIF STATU	S >
NODE CNT	:00
MY ID	:00
ROOT ID	:00
IRM ID	:00
IN CH	:00
OUT CH	:00
STATUS	******
DIF	*****
N/P	*****
VIDEO	*****
AUDIO	*****
NODE UNI ID	******

Menu contents [DIF STATUS]

Item	Variable range	Content
NODE CNT	1~63	Number of connections of local path
MY ID	1~63	MY PHY ID
ROOT ID	1~63	ROOT PHY ID
IRM ID	1~63	Isochronous Resource Manager PHY ID
IN CH	0~63	Current input CH
OUT CH	0~63	Current input CH
	INPUT OK	Receiving packets normally
	NO PACKET	No packets existing
	INPUT NG	Receiving packets with Problems
STATUS	OUTPUT OK	Transmitting packets normally
	OUTPUT NG	Transmission disabled in Transmitting status
	DIF STOP	DIF STOP status
	STOP	DIF STOP status
DIF	ERR1	Unclear format CIP header
	ERR2	Mismatching between CIP header and AP-ID
	NTSC	NTSC
	PAL	PAL
N/P	STOP	DIF STOP status
	ERR	Mismatched 50/60 of CIP-H, VS, or AS
	OK STOP	Recordable format DIF STOP status
VIDEO	NG	Format unrecordable of VS and VSC
	ERR	Unclear or mismatched VS or VSC
AUDIO	OK	Recordable format
	UNLOCK	Receiving data LF = 1
	STOP	DIF STOP data
	ERROR	Unclear or mismatched AS or ASC
	NG	Format unrecordable of AS or ASC
NODE UNIQUE ID	HEX 8	MY NODE UNIQUE ID

2. Method of Checking Error Rate

The error rate with this unit can be checked in the following steps:

(1) Set the following items in SUB menu [VTR SERVICE 1/2] as follows:

Sett	ing
CONCEAL	OFF
INNER ECC	OFF
OUTER ECC	OFF
BAR ADJ	ON

(2) Measure BAR RESULT in SUB menu [VTR SERVICE 2/2] under the following operating conditions:

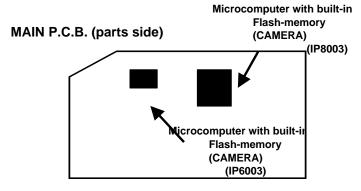
NA	Error rate spec.	
Measuring condition	L ch	R ch
DV color bar alignment tape		
playback	O.F. main	2 Ei
Camera color bar self	3.5 min.	3.5 min.
recording/playback		

(Caution) If the measured BAR RESULT is out of specification (3.5 or less), the error rate display blinks.

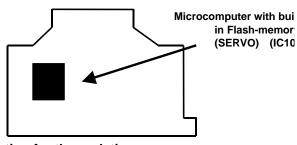
3. Method of Displaying Software Version and Hour Meter

Method of Updating Software

MAIN P.C.B. and SERVO P.C.B. (VRR SYSCON, SERVO, and CAMERA) have the microcomputers with built-in flash memory. To update the microcomputer software version, flash memory version up software for each is used.



SERVO P.C.B. (parts side)



3-1. Preparation for the updating

3-1-1. Parts needed for writing the flash memories

Flash memory version up software for the updating

System control microcomputer →"VFK1248E"

Servo control microcomputer →"VFK1503"

Camera control microcomputer \rightarrow

Personal computer compliant to WINDOWS 95/98 RS-232C cable (9-pin cross cable)

3-1-2. Installing the flash memory version up software for the updating

Make a copy of the following files under an arbitrary directory of the microcomputer compliant to WINDOWS 95/98: (After the files have been executed, "INI" files are created under the same directory as the program files. The "INI" files can be either left as they are or deleted.)

Program files

System control microcomputer

Servo control microcomputer (four kinds of software)

® "VSI2312E.EXE"

"fw103u.exe"

®

"VSIXXXX.obf"

"VSIXXXX.bat"

"VSIXXXX.exe"

Camera control microcomputer ® "FWC2.exe"

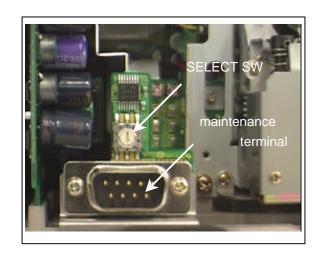
3-1-3. Cable connection

Turn off the power for the main unit, and connect the maintenance terminal on the lateral side of the main unit and the microcomputer with the RS-232C cable (9-pin cross cable).



3-1-4. Setting WRITE SELECT SW

Change the setting of WRITE SELECT SW above the maintenance terminal according to the flash memory to be written.



Number	Name	Functional description
0	NORMAL	Connection OFF position
1	CAMERA WR 1	Writing camera software (1)
2	CAMERA WR 2	Writing camera software (2)
3	SERVO WR	Writing servo software
4	VTR RESERVE	(VTR reserve)
5	VTR WR	VTR system control software
6	SERVO RESERVR	(Servo reserve)
7~9	NC	Not used.

(Caution)

In the normal state (after the writing has been finished and power turned OFF), set the position to "0".

Do not change the setting of the SELECT SW during the normal operation.

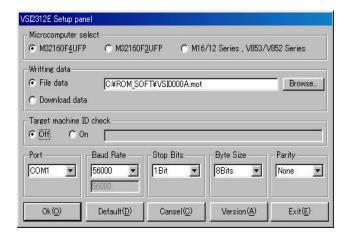
Do not turn off the power or disconnect the cable while writing the software.

Do not change the setting of the SW to other than the position 1 and 2 while writing the software.

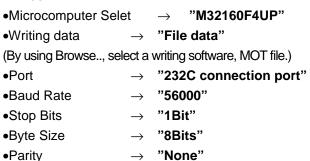
Do not change the setting of the SW to other than the specified set position while writing the servo control software.

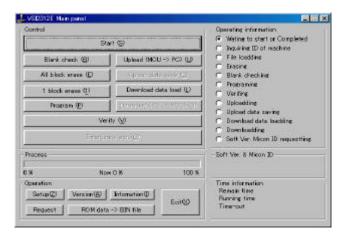
3-2. Procedure of writing VTR system control software

- Make sure that the power for the main unit is turned OFF.
- 2. Change the setting of the WRITE SELECT SW to "5".
- 3. Connect the personal computer and the main unit with the RS-232C cable (9-pin cross cable).
- 4. Turn ON the power for the main unit.
- Press EJECT button and make sure that the cassette does not lift up at that time. (If the cassette lifts up, check whether the cable is properly connected and the SW is set to the right position.)
- Start the flash-memory update software "VS12312E.EXE". (Double-click the program file "VS12312E.EXE" that was copied under the arbitrary directory.)
- 7. After the program file has started up, Setup Panel window opens.



8. Make the following settings in the "Setup Panel" window:





- 9.Click Start(S) button on the Main Panel window. (If this process is to be stopped, click Exit(X) button. When returning to Setup Panel window, click Setup(Z) button.)
- 10. After the flash memory has been erased, the new software is written in. During the writing process, the proceeding of the writing can be confirmed in the Process indicator. If the writing does not proceed for any reason, click Emergency stop($\underline{\mathbb{C}}$) button to stop the processing, and check the connection and the settings again.

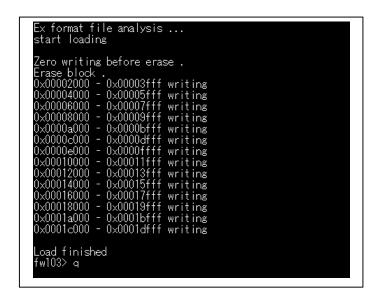
- 11. When the flash memory has been erased and written in, the Process indicator reaches 100%, and "Waiting to Start or Completed" message in the "Operating information" section is checked.
- 12. Turn OFF the power for the main unit, disconnect the cable, and return the WRITE SELECT SW to its original position "0".
- 13. Confirm that the version of the new software is indicated with DIAG menu.

3-3. Procedure of writing SERVO control software

- 1. Make sure that the power for the main unit is turned OFF.
 - 2. Change the setting of the WRITE SELECT SW to "3".
- 3. Connect the personal computer and the main unit with the RS-232C cable (9-pin cross cable).
 - 4. Turn ON the power for the main unit.
- 5. Press EJECT button and make sure that the cassette does 9. Turn OFF the power for the main unit, disconnect the not lift up at that time. (If the cassette lifts up, check whether the cable is properly connected and the SW is set to the right position.)
- 6. Start the flash-memory update software "VSIXXXX.bat". (Double-click the program file "VSIXXXX.bat" that was copied under the arbitrary directory.)
- 7. When the following window appears, type "Y" and click ENTER button. (While the program is being written in, the proceeding is indicated on the personal computer screen.)

```
/=== MN103004 FLASH ROM VERSION UP SOFTWARE ===/
          1個のファイルをコピーしました.
/=== Initializing ===/
Could not record flash memory exchange record.
Do you continue ? Y/N > Y_
```

8. When the following message appears, the writing has been completed.

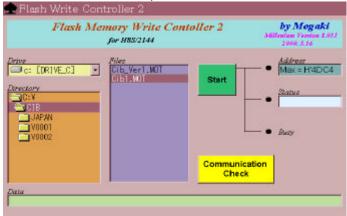


- cable, and return the WRITE SELECT SW to its original position "0".
- 10. Confirm that the version of the new software is indicated with DIAG menu.

3-4. Procedure of writing Camera control software

- 1. Make sure that the power for the main unit is turned OFF.
 - 2. Change the setting of the WRITE SELECT SW to "1".
 - 3. Connect the personal computer and the main unit with the RS-232C cable (9-pin cross cable).
- 4. Turn ON the power for the main unit.
- 5. Press EJECT button and make sure that the cassette does not lift up at that time. (If the cassette lifts up, check whether the cable is properly connected and the SW is set to the right position.)
- 6. Start the flash-memory update software "FWC2.exe".
- 7. After the program file has started up, "Flash Write Controller 2" window opens.

8. Select a write software, MOT file, and read it in. After the file has been read in, Start button is activated.



- 9. Clicking "Communication Check" button changes the color from yellow to green and the remark changes to "Check O.K". Now, the preparation for writing the software has been completed. (If the color and the remark do not change, check the hardware. Because another communication software may be using the communication port, exit all the other communication software.)
 - 10. After the "Check O.K." remark has appeared, turn the WRITE SELECT SW to "2", and click Start button to start the writing. The remarks change during the writing as follows:

Address: Indicates the write address during the writing at green.

Status: Indicates the writing status. "Go"

means the data reception is possible.

Busy: If the data transmission stops for a

long time, Busy becomes yellow.

Data: Data transmitted in the serial

communication during the writing

- 11. When the writing has completed, "Write O.K." message appears at green in the Status fields, and "Check O.K." button changes to yellow.
- 12. Turn OFF the power for the main unit, disconnect the cable, and return the WRITE SELECT SW to its original position "0".
- 13. Confirm that the version of the new software is indicated with DIAG menu.

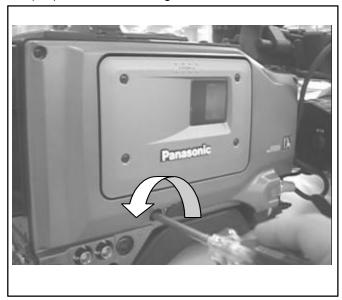
(Cautions)

- 1. Turn off the screen saver of the personal computer.
- 2. Exit the software in which messages appear at the foremost of the screen (E-mail arrival, and the like).
- 3. Do not touch the personal computer or the camcorder after starting the writing.
- 4. Never turn off the power for the personal computer or the camcorder after starting the writing.
- If any ERROR appears, click the writing software with the mouse to bring it forward without making haste, and click Start button. Never exit the writing software.

4. Emergency Eject

If you can not take out the cassette even though you press EJECT button, you can take out the cassette by pushing and turning EMERGENCY screw with a screwdriver or the like.

- 1. Turn OFF the power.
- Remove the rubber cap and insert a Phillips screwdriver to the cross-shaped recess of the EMERGENCY screw (red) as shown in the figure below:



- While pushing the EMERGENCY screw with the screwdriver, turn the screw counterclockwise until the cassette is ejected.
 - •The screw must be turned about 20 turns before the tape unloading begins.
 - •Thescrewmustbeturnedabout90turnsfromthebeginning of the tape unloading to the cassette eject.
- 4. Take out the cassette.
- 5. Attach the rubber cap again.

<Caution>

- •Do not turn the EMERGENCY screw except in emergency. Do not turn the EMERGENCY screw clockwise. Also, do notturnthescrewfartherafterthecassettehasbeenejected. Otherwise, the mechanism may be broken down.
- •Afterthe cassette has been ejected, the cassette holder can not be locked even if it is pushed to close. Turn on the power to reset the action of the mechanism, and then close the cassette holder.
- •ClicksoundsoccurduringthetimewhentheEMERGENCY screwisturned. These sounds occur while the reel is driven and they are not abnormal.

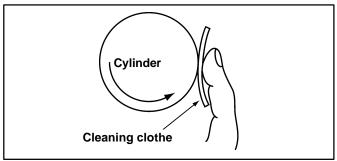
5. Cleaning Method

Cautions: Turn off the power while doing cleaning.

As a cleaning liquid use ethanol (99% or more)
or *EE cleaner made by Olympus Corporation.

5-1. Cleaning video heads

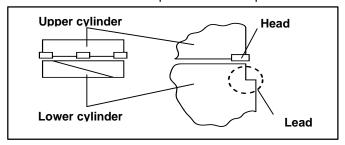
Lightly press a cleaning cloth damped with a cleaning liquid onto the cylinder, and rotate the cylinder counterclockwise. Repeatthisseveraltimesuntilnomoredirtstickstothecleaning cloth. Finally, wipe the cylinder with a new dry cleaning cloth. Do not touch the cylinder with bare hands.



5-2. Cleaning drum lead

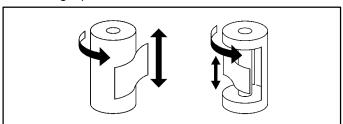
Remove the dust stuck to the drum lead with something like a tooth pick.

Do not hit the video head tips with the tooth pick or the like.



5-3. Cleaning pinch roller and capstan

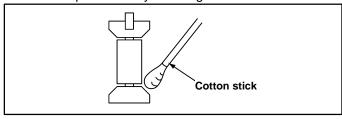
Wipe the pinch roller and capstan with a cloth damped with a cleaning liquid.



5-4. Cleaning posts

Windadrycleaningclothroundathinstickandwipetheposts with the stick. As far as the fixed posts are concerned, at first

wipethemwithacleaningclothdampedwithacleaningliquid, and then wipe with a dry cleaning cloth.



* EE cleaner made by Olympus Chemitech Corporation
Delivery agent: camera mass sales stores and electrical
equipment mass retailers

6. AUTO OFF LIST

Code	Auto-Off condition
04	Failure of the pinch-roller solenoid or reel brake solenoid drive circuit has been detected.
08	Failure of the cleaning solenoid drive circuit has been detected.
0В	Where the radius of the tape winding is the minimum, the reel is rotating at the speed of more than 150 times normal playback speed.
0B	When the tape is running in the reel drive mode, the tension sensor voltage continues to be less than 0.3 V or more than 4.7 V for more than 5 seconds.
0B	The take-up reel has rotated more than one turn in the direction opposite to the tape running.
0C	When the capstan has driven the tape by 3 cm, the number of FG counts of the take-up reel is less than the specified value (before detecting the radius of the tape winding).
0C	In ± one time playback speed, when the amount of tape transport either on the take-up reel or supply reel has reached 3 cm, the difference in the amount of tape transport between the two reels is more than 2 cm (after detecting the radius of the tape winding). When the tape is running, FG output of the take-up reel is not counted for 5 seconds (irrelevant to tape radius detection).
0D	Where the radius of the tape winding is the minimum, the reel rotates at the speed of more than 150 times normal playback speed for more than 2 seconds.
0D	When the tape is running in the capstan mode, the tension sensor voltage continues to be less than 0.3 V for 5 seconds.
0D	While the capstan motor is rotating, the FG output is not detected for more than 5 seconds.
0E	While the cylinder motor is rotating, the FG output is not detected for more than one second. The PG output is not detected for more than 5 seconds.
0E	While the cylinder is rotating, the period of the PG pulses continues to be less than 3 msec for 2 seconds.
0F	Tape loading does not finish within 10 seconds.
0F	Tape loading error: if tape loading is locked after the half loading, the loading is retried three times and the loading is still locked at the fourth retry.
0F	Tape unloading does not finish within 10 seconds.
0F	From the start of tape loading to the half loading, the tension sensor voltage continues to be more than 1.5 V for 40 msec. When the tape is running in FF/REW after the white tape has been detected at the half loading, the output of the take-up reel FG counts more than five times the output from the white tape length.
0F	The tape is not wound up during unloading.
0F	The tape start or tape end processing does not finish even after 10 seconds.